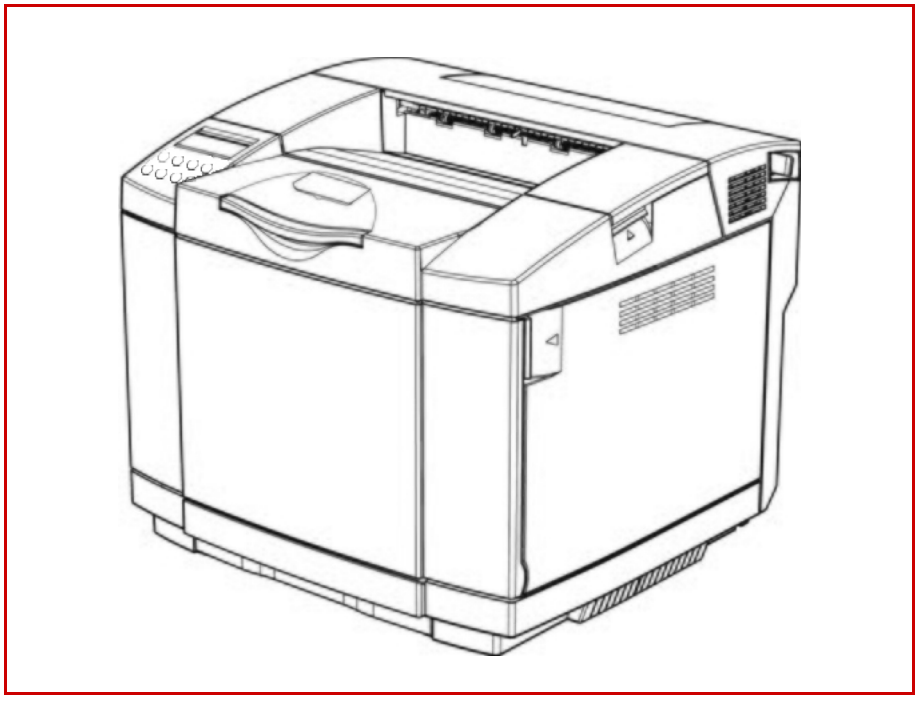
Tally Genicom™

Intelliprint 8008N

User Guide



Color Laser Printer

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1.1 About This Manual

This manual is intended to provide guidance for the proper installation, operation, and maintenance of your printer. Please read this manual carefully to ensure proper use of the printer. Keep the CD-ROM in a safe place, where it can be retrieved readily when needed.

The following documentation conventions are used in this manual for ease in understanding and use.

1.1.1 Warnings, Cautions and Notes

Warnings, cautions and notes provide important safety information throughout this manual. Carefully follow all the warnings, cautions and notes as you read through the instructions in this manual before you operate the printer.

Information in the warnings and cautions describe potential hazards.

If you don't understand the safety information, contact your Technical Services.

Here are the warning, caution, and note definitions:

Warning! *If a specific action or procedure in a Warning is not followed, equipment damage or personal injury can occur.*

Caution! *If a specific action or procedure in a Caution is not followed, damage to equipment can occur.*

Note: *Notes offer additional information to help you more fully understand a concept or subject. If a note is not followed, a task or procedure may not be properly accomplished.*

1.2 Safety Summary

1.2.1 General Safety Guidelines

Before operating the printer, read the following instructions carefully:

- Follow all the operating procedures provided in this manual.
- Pay special attention to and follow all the hazard warnings on the printer and in the manual. Failure to do so can cause injury to yourself or damage to the printer.
- Do not make perform any operation or action in any way other than provided in this manual. When in doubt, contact your dealer or your customer support.
- Keep in mind that hazard warnings in this manual or on the printer cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand. Be alert and use your common sense.

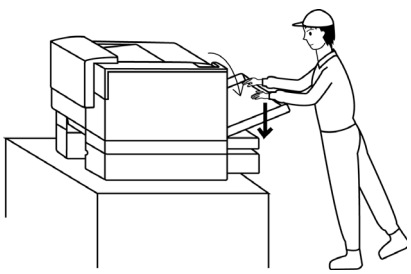
WARNING!

- If trouble occurs, disconnect the power plug.
  - If there is any trouble such as overheat, smoke, strange noise or offensive odors, immediately turn off the printer, and disconnect the power plug. Otherwise, it may cause fire or an electric shock.
  - Keep objects away from the wall socket to disconnect the power plug immediately.
- No impact.
  - If the printer is dropped or damaged, turn off the printer and disconnect the power plug. Otherwise, it may cause fire or an electric shock.
- No modifications.
  - Do not modify the printer. Otherwise, it may cause fire, an electric shock or laser radiation.
  - If you look directly at or are exposed to laser radiation, your eyes or skin may be injured.
- Do not remove the case enclosure.
  - Do not remove the printer case or touch the inside. It may cause burns or an electric shock. Ask for any inspection, adjustment or repair of the printer to to be undertaken by your dealer or service representative.
- Do not put anything on the printer.
  - Do not put metals such as paper clips and pins, or vessels containing water such as vases on the printer. If a piece of metal or water gets into the printer, it may cause fire or an electric shock.

- No foreign material get into the printer.
  - Do not spill any liquid into the ventilation slits of the printer. Do not get foreign material such as a metal or flammable article into the printer. Otherwise, it may cause fire or an electric shock.
- Touch with dry hands.
  - Do not touch the printer or the power plug with wet hands. Otherwise, you may suffer an electric shock, or the printer may malfunction.
- No excessive moisture or dust.
  - Do not place the printer at a place subject to excessive moisture or dust. Otherwise, it may cause fire or an electric shock.
- Do not cover any of the ventilation slits.
  - Do not cover the printer's ventilation slits. Otherwise, the inside of the printer may become overheated, causing fire.
- Lifespan
  - The lifespan of the printer and its options is 300,000 images (printed 75,000 color pages) or five years (12,000 hours of the energized application), whichever comes first.
  - Using the printer beyond the lifespan needs replacement of the components which have exceeded their lifespans. Consult your dealer or your customer support. Keeping on using those components beyond their lifespans may cause fire or an electric shock.
- Temperature differences
  - When you move the printer to a place with a temperature, significantly different condensation may form on its surface or inside. Under such circumstances, it may cause fire or an electric shock. Allow the printer to adjust the ambience of its new location for several hours before using it.

CAUTION!

- Do not stand on or lean. Do not place heavy articles on the printer.
  - Do not lean on the opened cover or the drawn paper tray. Otherwise, the printer may fall over, causing injury.

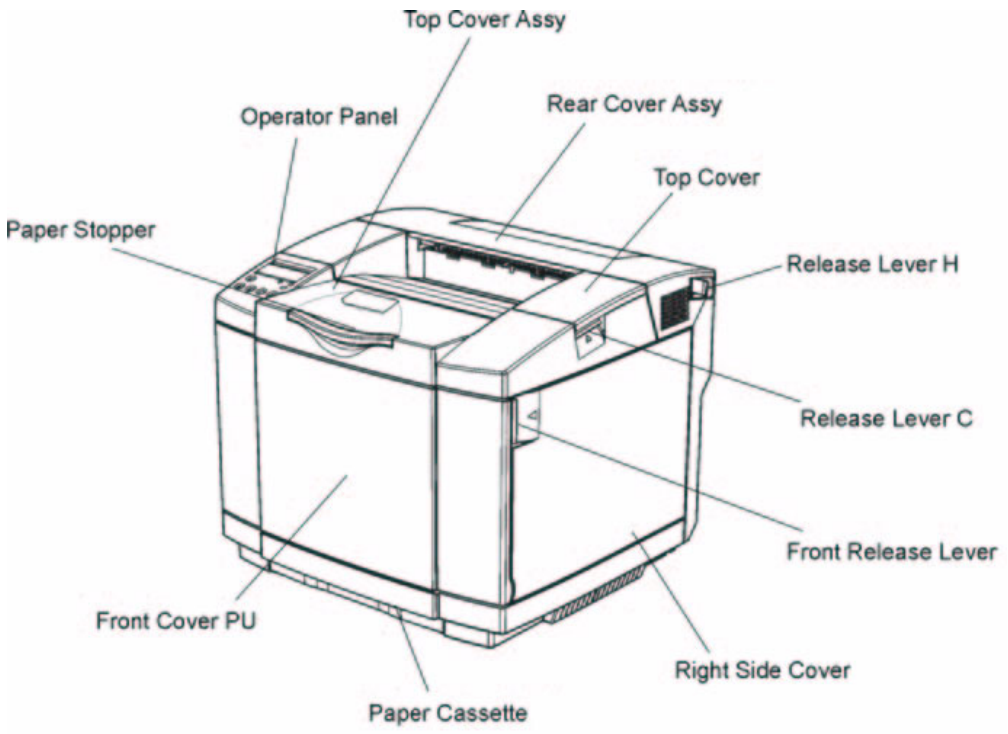


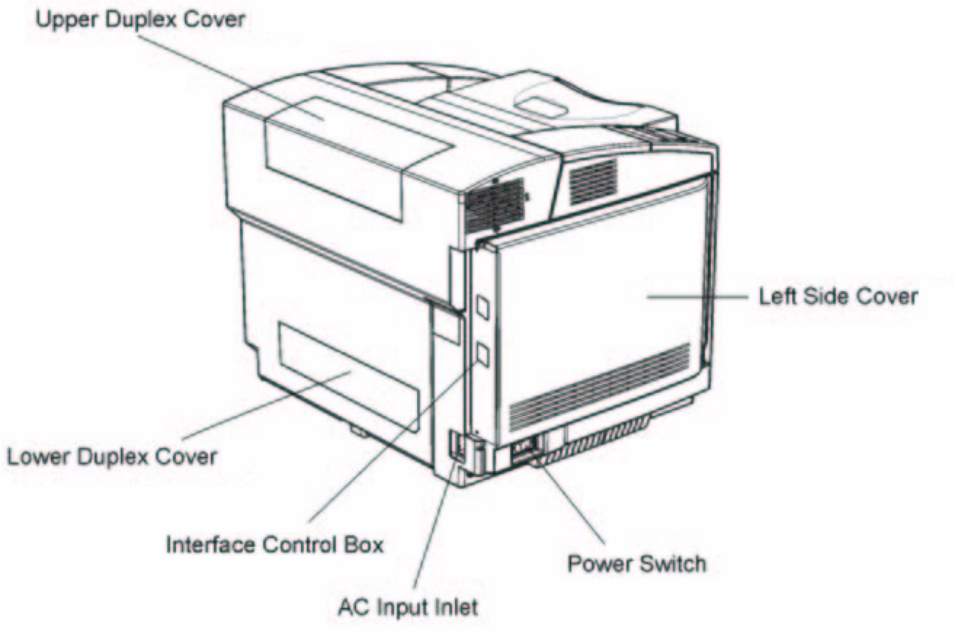
  - Do not place heavy articles on the printer. Otherwise, the printer may become imbalance, or fall over, causing injury.

- Install the printer in a stable place.
  - Do not place the printer in an imbalance position or on a slope, or in other unstable places. Otherwise, the printer may fall over, causing injury.
- Do not install the printer where subjected to high temperatures.
  - If you place the printer where subjected to direct sunshine, or near a heat source such as a stove, the printer may become overheated, causing trouble.
- Keep the printer away from a radio or TV set.
  - If you install the printer near a radio or TV set, the printer and the radio or TV set may adversely affect each other. If you find a lot of noise on the radio or TV set, take the following actions.
    - Install the printer as far from the radio or TV set as possible.
    - Change the direction of the antenna for the radio or TV set.
    - Use a power circuit or wall socket that is different from the one used by the radio or TV set.

1.3 Outline of Product

1.3.1 Name and Function of Each Part





No.	Name of Parts	Outline of Functions
1	Top Cover Assy	Stores the printed output. If required the additional 2 paper supports can be also used to support the paper. The plate at the top can be raised and secured.The paper stopper on the front can be pulled out, the upright support raised and then adjusted back to the required paper size.
2	Operator Panel	To configure and advise the status of the printer.
3	Front Cover	To gain access to the toner cartridges and waste toner pack.
4	Rear Cover Assy	Transfers images onto the page and transports the paper. May be required to be opened when clearing internal jam or trouble shooting and when replacing the fuser unit
5	Top cover	Allows access to the OPC Belt Cartridge and transfer belt cleaner.
6	Power Switch	To power on or off the printer.
7	AC Input Inlet	To connect a power supply cable.
8	Interface Control Box	Controller board with USB and Ethernet connectors.
9/ 10	Upper/Lower Duplex Cover	To be removed only when installing the duplex unit.

1.4 Specifications of Product

1.4.1 General Specification Printer

No.	Name of Parts	Outline of Functions
1	Printing Method	Semiconductor laser and electrophotography
2	Print Speed a) Monochrome b) 4 Colors	Cassette feed and simplex continuous print: 31 sheets per minute (A4 size) 8 sheets per minute (A4 size)
3	Warming-Up Time (ambient temperature of 20°C)	50 to 80 seconds.
4	Resolution	600 × 600 dpi, 1200 × 600 dpi
5	Feeding Method	Cassette feed
6	Cassette Capacity	Ordinary paper: 250 sheets, Thick stock: 120 sheets, Label: 80 sheets, Transparency 50 sheets, Envelope: 15 sheets.
7	Printable Media[1]	A4, Letter, Executive, A5, Custom, B5, Transparency, Label, Envelope
8	Paper Exit System[2]	Face down, 250 sheets (capacity)
9	External Dimension	480 (W) × 420 (D) × 385 (H) (mm) 18.9 (W) × 16.5 (D) × 15.2 (H) (inches)
10	Weight of Printer (including the consumables)	Approximately 31.5 kg/69,4 lb)

1 Print media other than plain paper, such as Thick Stock, Label, Transparency and Envelope must be fed from the standard feeder only and cannot be used with the optional duplex unit.

2 Output capacity is determined by the output tray sensor.

Note: *Paper and other media can be highly variable and should be tested in the printer prior to purchase.*

1.4.2 Paper Feeder (Optional)

No.	Name of Parts	Outline of Functions
1	Cassette Capacity	Paper: 500 sheets
2	Printable Media	A4, Letter, B5 and Executive
3	External Dimension	460 (W) × 467 (D) × 185 (H) (mm) 18.1 (W) × 18.4 (D) × 7.3 (H) (inches)
4	Weight	Approximately 6 kg/13.2 lb

1.4.3 Duplex Unit (Optional)

No.	Name of Parts	Outline of Functions
1	Printable Media	Letter, A4
2	Rated Voltage	24 V DC supplied from the printer engine.
3	External Dimension	Duplex Unit: 345 (W) × 185 (D) × 406.2 (H) 13.6 (W) × 7.3 (D) × 16.0 (H) Printer with duplex unit: 480 (W) × 522 (D) × 440 (H) 18.9 (W) × 20.6 (D) × 17.3 (H)
4	Weight	Approximately 5 kg/11 lb

1.4.4 Characteristics of Recommended Paper

Item	Description
Basis Weight	82 g/m^2 ±5
Thickness (μm)	95±6
Stiffness (Clark)	100±15
Brightness (%)	85±2
Surface Resistance (Ω)	10^{10} to 10^{11}
Grain Direction	Long

Measurement Condition: 17.5 to 27×C, 50 to 70%RH

Note: *Paper should be kept in packaged condition, unopened, until ready for use. Paper and other media can be highly variable and should be tested in the printer prior to purchase.*

1.5 Environmental Condition

(a) Under Operation: 10.0 to 32.5°C, 20 to 80%Relative Humidity with No Condensation, 0 to 2,500 metres (8200 feet).

(b) Under Non-Operation: 5 to 35°C, 10 to 80% RH with No Condensation.

(c) Storage and Transportation Environment of Printer

The following defines the storage and transportation environment of the printers that have been packed according to the manufacturers specification.

In particular, since consumables such as toner etc. are packaged, the following environmental conditions should be respected.

During transportation, strictly refrain from leaving the goods on the ground or under the blazing sun.

Temperature	Normal Condition	0°C to 35°C (32°F to 95°F)
	Severe Condition	High Temperature: 35°C to 40°C (95°F to 104°F)
		Low Temperature: -10°C to 0°C (14°F to 32°F)
Humidity	10% to 90% RH	
Period of Storage	1 Year after Ex-works	
Other	No Condensation	
Atmosphere	613 to 1,067 hpa (460 to 800 mm Hg)	

The period under the severe condition should not be continuous, but is assumed to be the total of intermittent time.

However, the total of intermittent time should never exceed 48 hours at maximum.

Normal condition should occupy more than 90% of the total storage period.

Severe condition should be less than 10% of the total storage period.

Chapter 2
Installation

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2.2 Procedure for Installation 2-5

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2.4 Checking the Power Source 2-8

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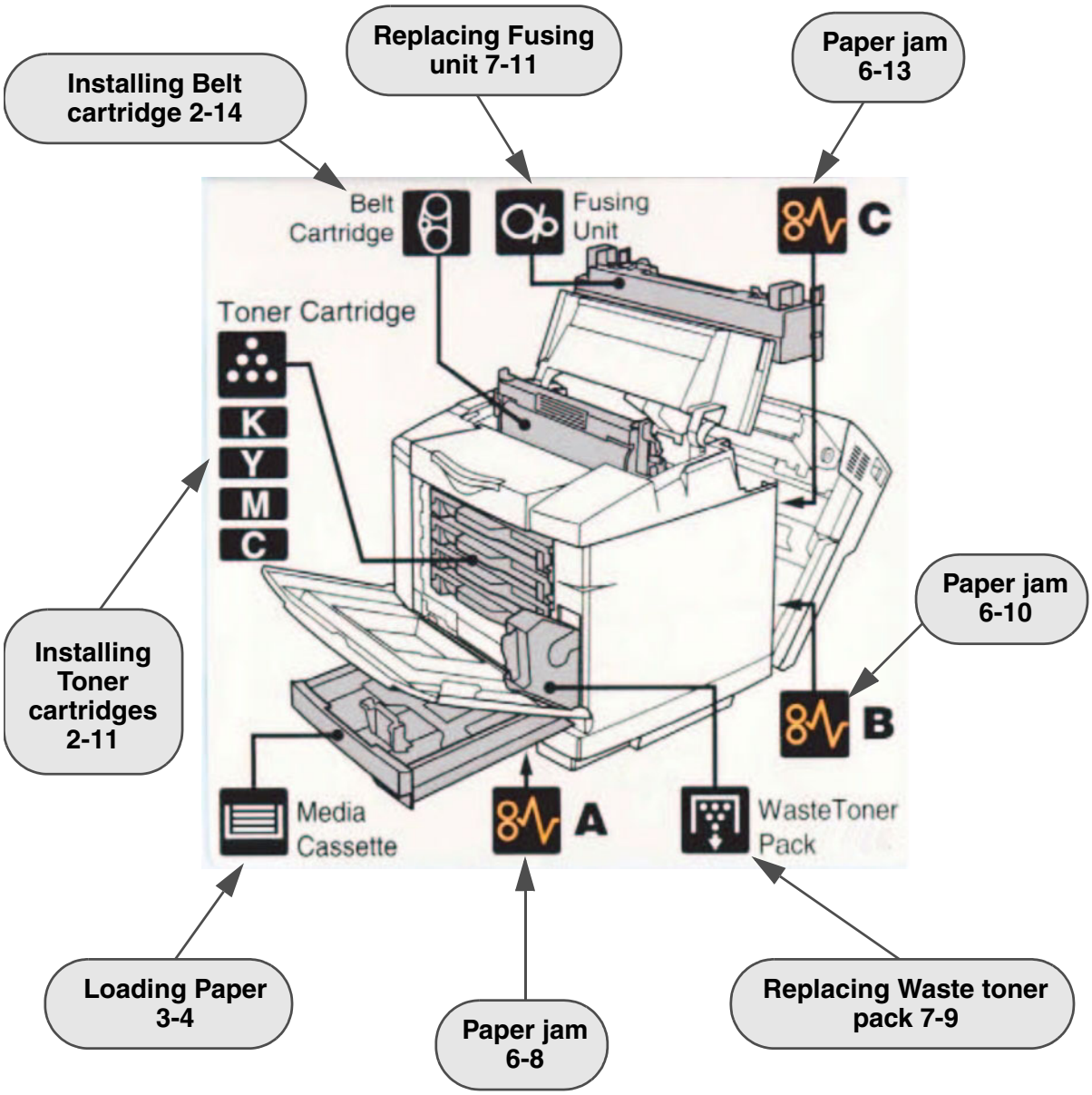
I don't know what to do?

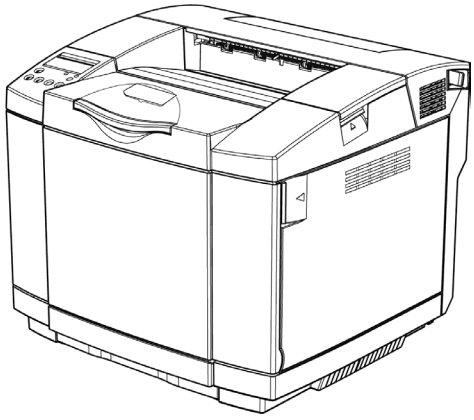
For situations like this, please read on...



2.1 Checking Your Package

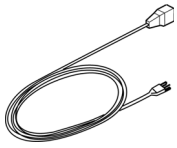
Before installing the printer, check that all the items are contained in the package. Should any components be missing or damaged, contact your dealer.

Printer



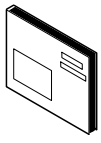
Power cord

Type is dependent on country.



Accessory kit

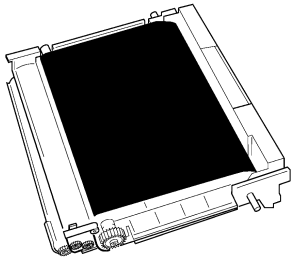
Quick Start Guide



Software set (CD-ROM)

Starter kit

Belt cartridge



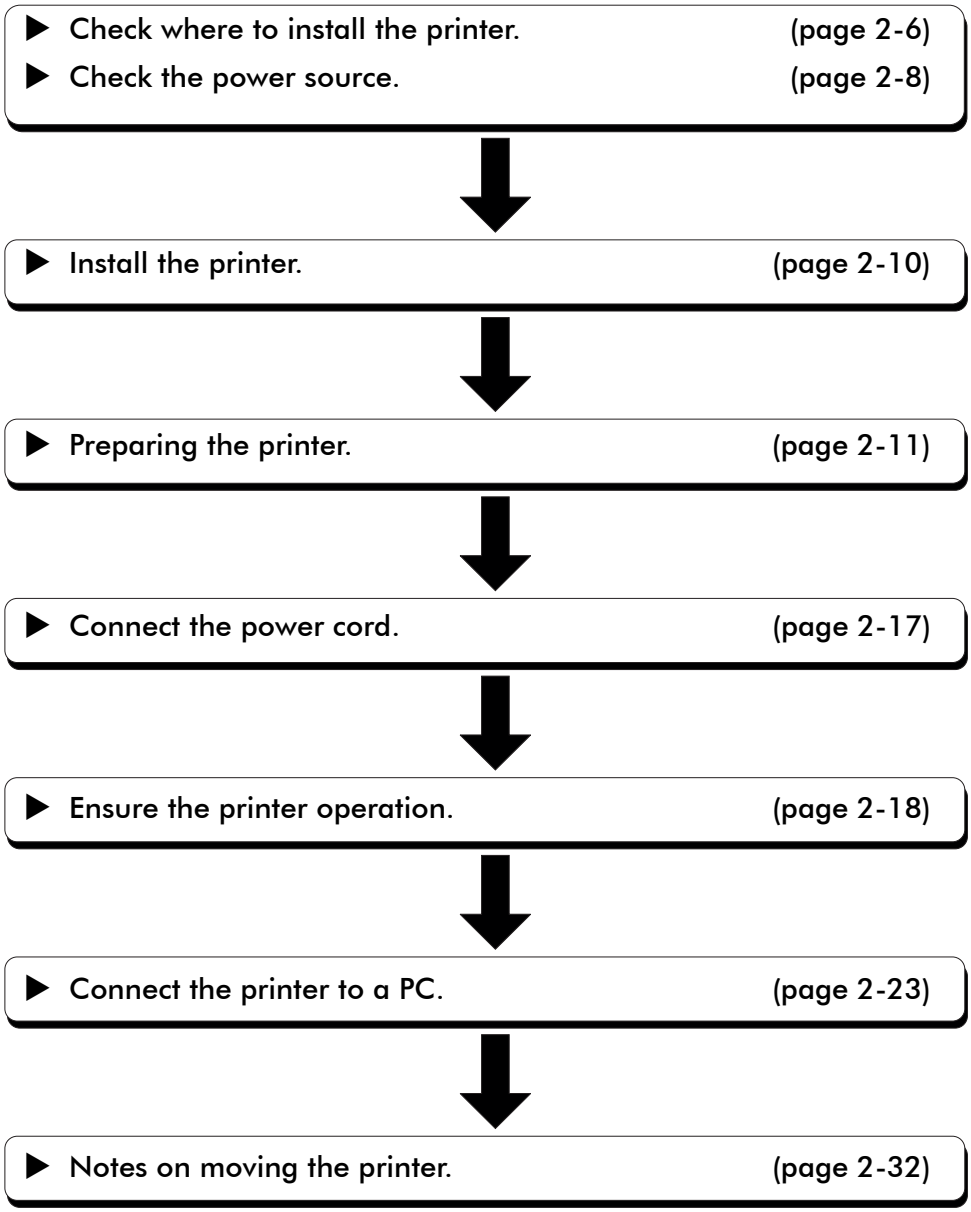
The printer includes toner cartridges K, Y, M and C (one of each), a waste toner pack and a fuser unit, all are consumables. The lives of the initial supplied toner cartridges are reduced when compared to the standard replacements giving up to 1500 images at 5% coverage. All the other consumables supplied with the printer have the same lives as the standard replacements.

2.1.1 Accessories and Consumables

- The software (CD-ROM) contains the printer drivers, user manual and other utilities.
- The printer includes a multi language Quick Start Guide

2.2 Procedure for Installation

CAUTION! *Have two or more persons carry the printer. Pay attention not to hurt your back or drop the printer; otherwise, you may suffer from injury. The printer weighs about 29 kg/63.9 lb excluding consumables and options.*


▶ Check where to install the printer. (page 2-6)
▶ Check the power source. (page 2-8)
▶ Install the printer. (page 2-10)
▶ Preparing the printer. (page 2-11)
▶ Connect the power cord. (page 2-17)
▶ Ensure the printer operation. (page 2-18)
▶ Connect the printer to a PC. (page 2-23)
▶ Notes on moving the printer. (page 2-32)

2.3 Checking where to Install the Printer

Before installing the printer, check the environment and space for the installation.

2.3.1 Installation Environment

Install the printer on a stand or desk in a suitable environment as shown below.

The following gives the ranges of temperature and humidity acceptable for printer operation.

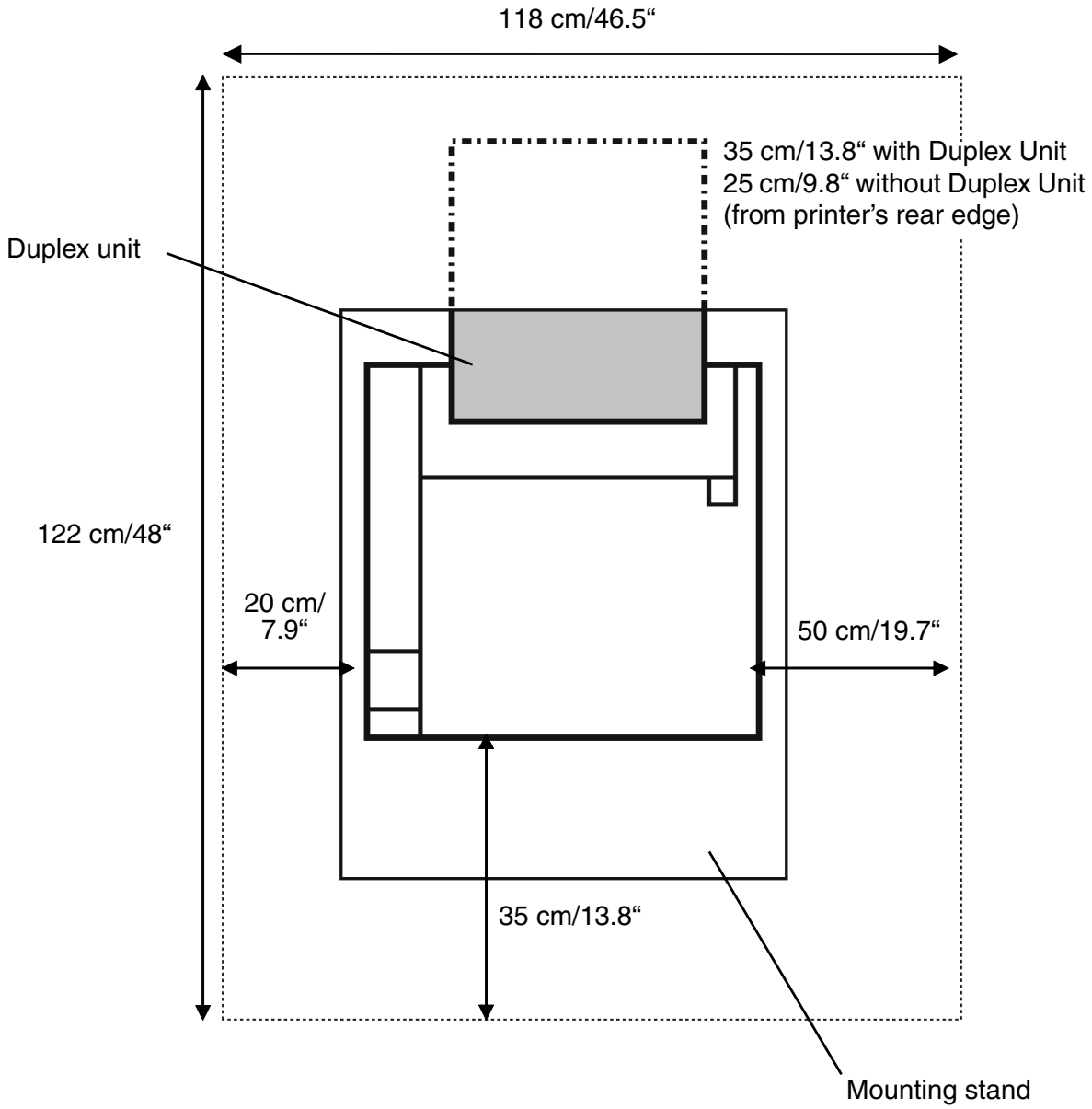
- Acceptable environment
  - Temperature: 10°C to 32.5°C
  - Humidity: 20% to 80%
- Recommended environment
  - Temperature: 17.5°C to 27°C
  - Humidity: 50% to 70%

Do not install the printer in the following places:

- In a location subject to direct sunlight.
- Near an air conditioner, or where it is subject to direct cool or warm drafts, or radiated heat.
- Where it is subject to exhaust discharged directly from a PC or printer.
- Where the temperature or humidity changes significantly. (Take care so that the printer is not subject to condensation.)
- Where it is subject to excessive dust or corrosive gases.
- In a location such as a laboratory where chemical reactions occur.
- Where an ultrasonic humidifier is being used.
- In a poorly ventilated location.
- Near equipment which generates electrical noise and strong magnetic fields.
- Where it is subject to vibration or shocks.
- Anywhere that cannot withstand the weight of the printer (about 29 kg/63.9 lb for the printer with consumables, and about 42 kg/92.6 for the maximum printer configuration including the options).
- In an uneven place or mounting location that is not level.
- Where it may slide or where it is sloped.
- On more than one stand.

2.3.2 Installation Space

Secure enough space around the printer as illustrated below (top view) to ensure printer reliability, safety and ease of operation.



2.4 Checking the Power Source

Check the power source for the printer.

2.4.1 Input Power Requirements

Printer model EU:

- Supply voltage: 220 – 240 VAC
- Frequency: 50 Hz ±2 Hz

Printer model US:

- Supply voltage: 120 VAC ±10%
- Frequency: 60 Hz ±2 Hz

WARNING! *Connect the printer to a dedicated wall outlet in compliance with the specifications of the printer. Connecting the printer to a non-compliant wall outlet may cause fire or electric shock.*
Use a grounded wall socket to prevent an electric shock. Never use a converter plug.

2.4.2 Power Consumption

The printer's maximum power consumption is 1,300 W.

When determining the power source for the printer, consider its electric power capacity as well. Should the rated power capacity be exceeded, the ring mains' circuit breaker may activate.

2.4.3 Precautions

- Ensure that the plug connection is clean. In a damp environment, a contaminated connector can draw sufficient amount of current to generate heat and may, over an extended period of time, cause a fire.
- Always use the power cable provided with your printer. Normally do not use a power extension, however If it use cannot be avoided then only use only a correctly rated power extension
- Do not attempt to modify, pull, bend, chafe, or otherwise damage the power cable.
- Do not place a heavy object on the cable. A damaged cable can cause fire or electric shocks.
- Never touch a power cable with wet hands. This constitutes an electric shock hazard.

- Stop operation immediately if your printer emits smoke, excessive heat, unusual noise or smell, or if water or any fluid is spilt onto the printer. These conditions can cause fire.
- Immediately turn off and unplug the printer, and contact your Customer Support centre.
- If the power cable is broken or insulated wires are exposed, ask your Customer Support Center for a replacement. Using a damaged cord can cause fire or electric shocks.
- Do not unplug or replug the printer while it is on. Unplugging a live connector can deform the plug and cause fire.
- When unplugging the printer, grasp the plug instead of the cable. Forcibly pulling on a cable can damage it and cause fire or electric shocks.
- Be sure to switch off and unplug the printer before accessing the interior of the printer for cleaning, maintenance, or fault clearance. Access to a live printer‘s interior can cause electric shocks.
- Once a month, unplug the printer and check the power cable for the following:
  - The power cable is plugged firmly into a receptacle.
  - The plug is not excessively heated, rusted, or bent.
  - The plug and receptacle are free of dust.
  - The cable is not cracked or frayed.

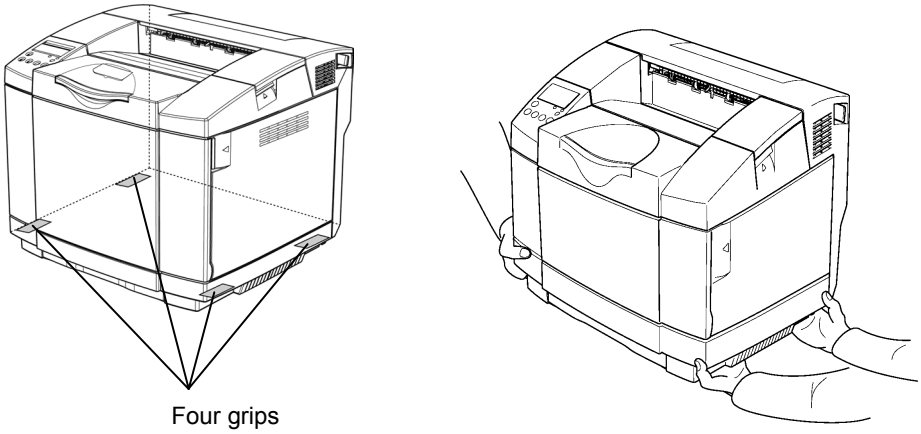
If you notice any unusual conditions, contact your Customer Support centre.

- When the printer is not used over an extended period of time, switch it off and unplug it. If an unused printer is left connected to a power source for a long period, degraded insulation can cause electric shocks, current leakages, or fire.
- Switch off the printer before connecting the interface cable or options. Connecting the cable or card with a live printer can cause electric shocks.

2.5 Installing the Printer

CAUTION! *Have two or more persons carry the printer. Pay attention not to hurt your back or drop the printer; otherwise, you may suffer from injury. The printer weighs about 29 kg/63.9 lb excluding its consumables and options.*
Do not grasp the polyethylene bag that covers the printer to take it out of its packing box. Otherwise, you may loose your grip and drop the printer, causing injury.
When carrying the printer, always grasp it by the provided gripping places. Otherwise, you may injure your hands.
It is recommended to store all the original packaging and shipping parts together.

1. Take the printer out from its packing box as detailed in the Quick Start Guide. You will find four grips at the bottom of the printer. Have two or more persons grasp these firmly to carry the printer.



Four grips

2. Install the printer in a suitable place.
3. Remove all the tape securing covers on the outside of the printer and any tape in the paper tray.

Note: *Do not attempt to remove yet the orange tags.*

2.6 Preparing the Printer

Install the consumables into the printer.

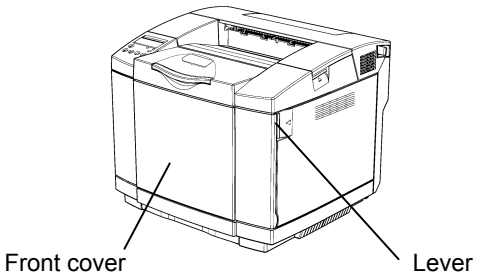
2.6.1 Toner Cartridges

The symbol for these parts is .

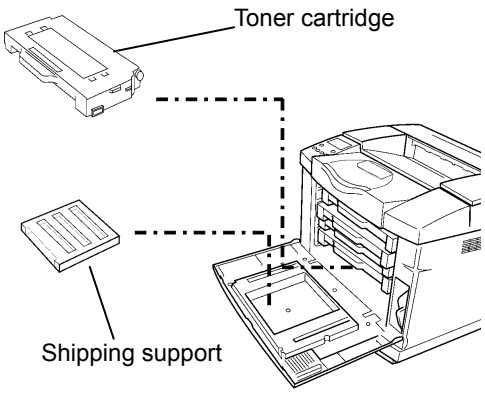
Remove the shipping cover.

Note: *Handle the toner cartridge with its label facing upward. Do not install the cartridge upside-down or reverse it.*

Install the cyan (C), magenta (M), yellow (Y) and black (K) toner cartridges as shown below.

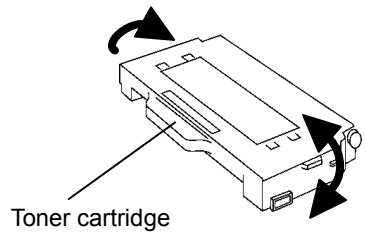


1. Unlock the lever on the front cover and open the front cover.

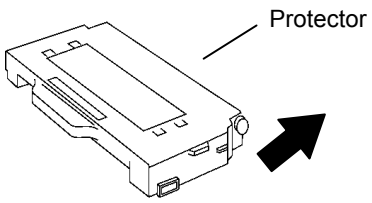


2. Remove the shipping support and four toner cartridges. Note that each toner cartridge has a label with a letter on. For each cartridge the letter is in line with the same letter label on the printer Store the shipping support with the printer packaging

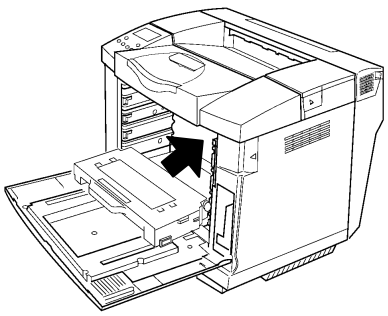
3. Pull the tape to completely remove the white shipping cover from the printer. Store the cover and tape with the printer packaging. Ensure that the cover immediately in front of the yellow label, held down by tape, is not dislodged.



4. Take the cyan toner cartridge (C) and shake it three or four times in the direction of arrows to level out the toner inside the cartridge.

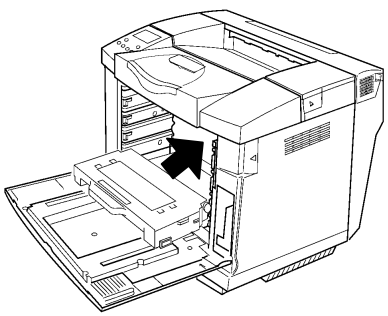


5. Peel off the tape, and remove the protector for the toner cartridge from the right. Store the cover with the printer packaging



6. Place the cyan toner cartridge along the bottom set of guides in the printer. It should slide in freely. If not check that you are installing it into the correct slot. The cartridges are keyed so that they cannot be fully installed into an incorrect slot.

▶ Repeat steps 4–6 to install the magenta (M), yellow (Y) and black (K) toner cartridges in that order.



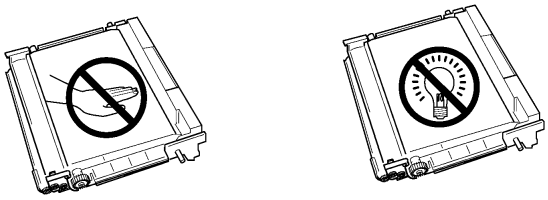
7. Close the front cover securely by pushing it until it locks to ensure that the toners are installed correctly.

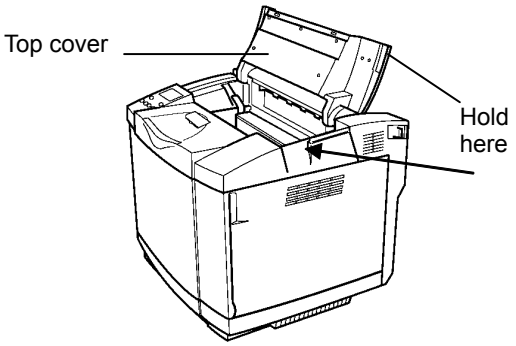
8. To prepare for the installation of the OPC belt, open the door again and pull each toner cartridge out about an inch.

2.6.2 Belt Cartridge

Install the belt cartridge in the printer as illustrated below. Pay attention to the following notes:

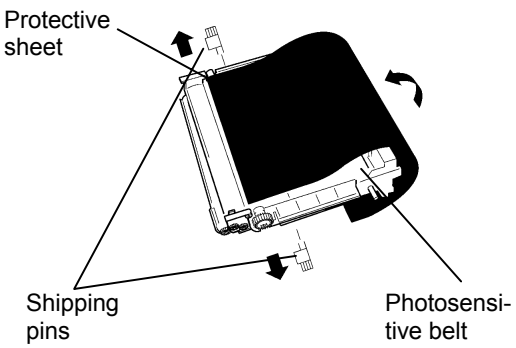
Note: *Do not touch the photosensitive belt or place it down where it can be scratched.*
The photosensitive belt is very sensitive to light. If this belt is exposed to light of 800 lux or more for 2 minutes or more, it deteriorates, causing troubles in the images printed. Pay attention not to expose the belt cartridge to light wherever possible.





1. Open the top cover by raising it. On the right hand side of the printer there is a recess to allow this. Raise the cover until it stays open.

▶ Keep the top cover fully open during the replacement work.



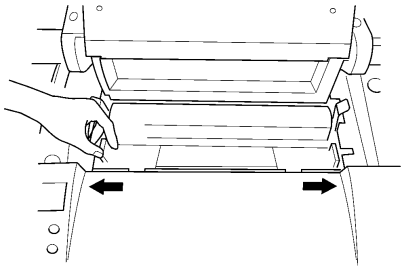
2. Hold the unit by the exposed black plastic part at the top of the unit. Remove and store the two shipping pins from the new belt cartridge.

3. Remove the protective sheet for the belt cartridge and store it. Pay attention to the following:

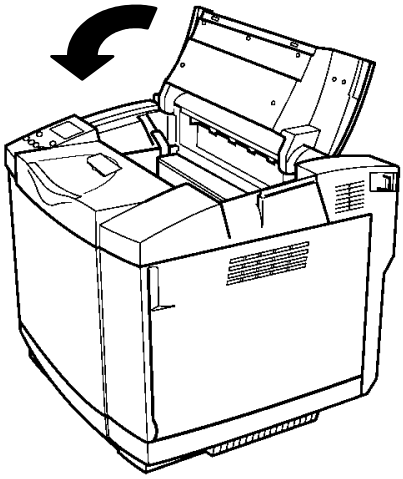
▶ Do not touch the photosensitive belt.

▶ Do not wipe off any of the white powder adhering to the photosensitive belt.

4. With the photosensitive belt facing front, hold the black handle at the top of the unit, slide the belt cartridge down into the printer along the guide until it stops. Once the unit is down, push down on both ends of the handle to ensure the belt is fully down.



5. Pull the lock levers back to lock the unit into place.



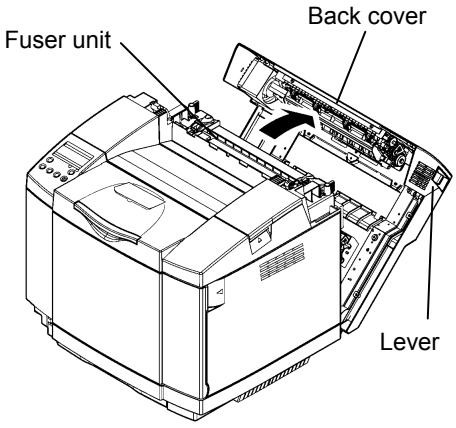
6. Hold the top cover and bring it down until it locks into place.

▶ Do not allow the cover to drop down.

7. Push the Toner cartridges back into the printer and close the front door.

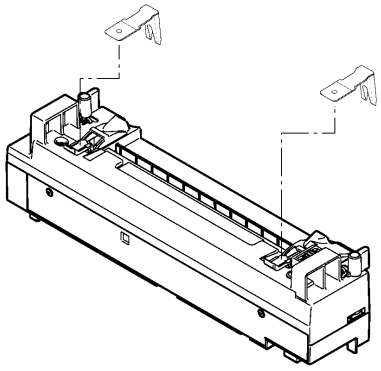
2.6.3 Fuser unit shipping parts

Remove the Fuser shipping parts as illstrated below.



1. Pull the lever on the back cover to unlock the back cover, and open the back cover until it stops.

▶ Keep the back cover fully open during the replacement work.



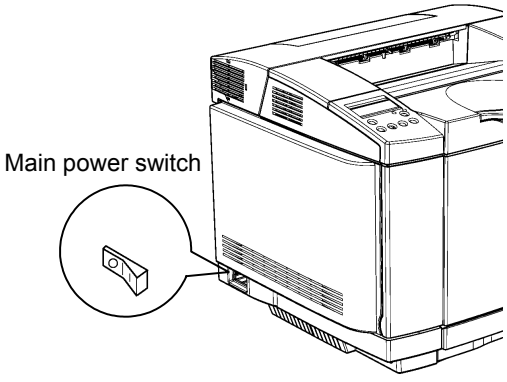
2. Pull the shipping release tabs (orange colored) provided on the left and right side of fuser unit Each tab has a clip at the end which was installed in the fuser for shipping.

3. Close the back cover and push it until it locks.

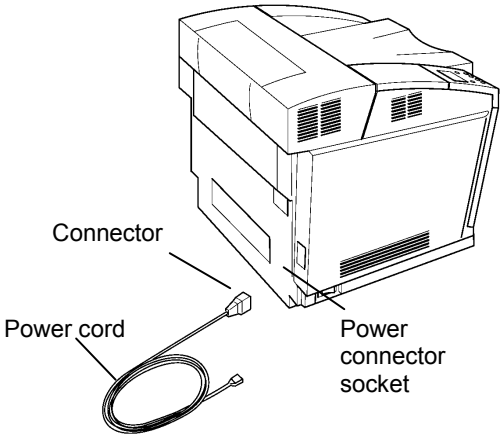
▶ Keep supporting the back cover as you close it.

2.7 Connecting the Power Cord

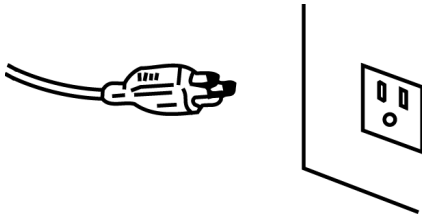
WARNING! *Should the printer generate abnormal heat, smoke, strange noises or offensive odor, immediately disconnect the power plug from the wall outlet. Continuing to use the printer may cause fire or electric shock.*
Only use the power cord supplied with the printer. Using another power cord may cause fire or electric shock.
Check that no dust adheres to the power plug. Fully insert the power plug into the wall outlet making sure it has no play. If there is dust on the power plug or if the power plug is not securely inserted, fire may occur, or you may suffer an electric shock.



1. Before connecting the power cord, check that the mains power switch for the printer is in the OFF position. Have you removed the toner and fuser shipping parts?



2. Insert the connector of the power cord into the printer socket.



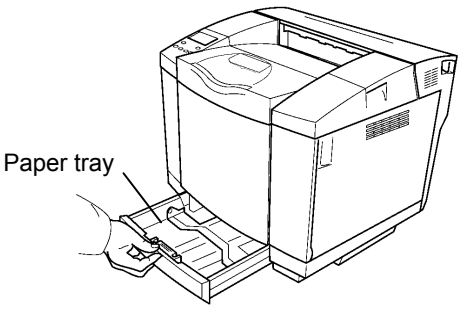
3. Insert the plug of the power cord into a grounded wall socket.

2.8 Ensuring reliable Printer Operation

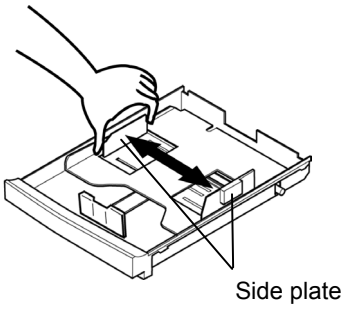
Ensure that the printer is at room temperature. This is particular important in winter. Operating the printer when it is colder than the room temperature can cause paper jam or bad images.

2.8.1 Adding Paper

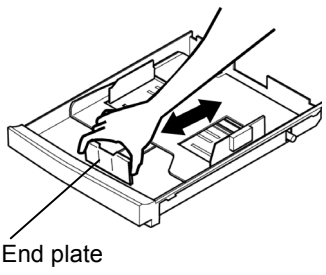
Before turning on the printer, add paper into the paper tray as shown below.



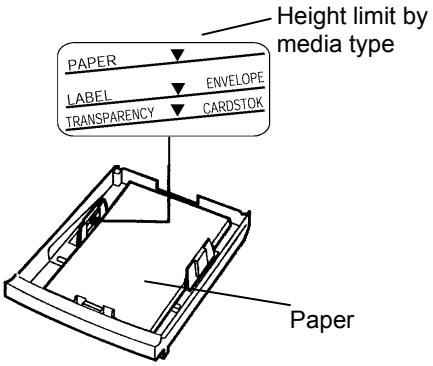
1. Pull out the paper tray from the printer.



2. On the left hand side plate press together the green plastic parts which have the spring between them. Slide to adjust the position of the side plates so they fit the width of the paper. There is a green arrow on the left side plate which can be lined with various standard paper sizes markers shown on the metal work in the base of the tray.

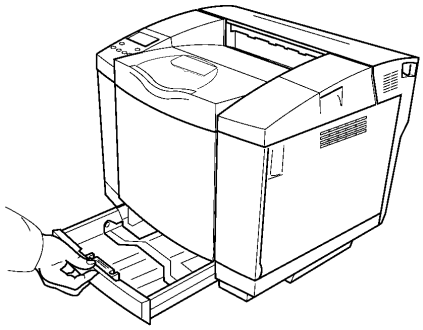


3. On the end plate press together the green plastic parts which have arrows on. Slide to adjust the position of the end plate so it fits the length of the paper. There is a green arrow on the end plate which can be lined with various paper sizes markers shown in the base of the tray.



4. Fan the paper and add it into the paper tray. Pay attention to the following:

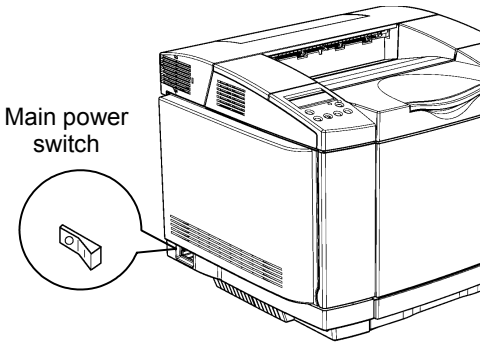
- Check that the four corners of the paper stack is at the same level in the paper tray.
- Supply an appropriate amount of paper so that it does not exceed its height limit.



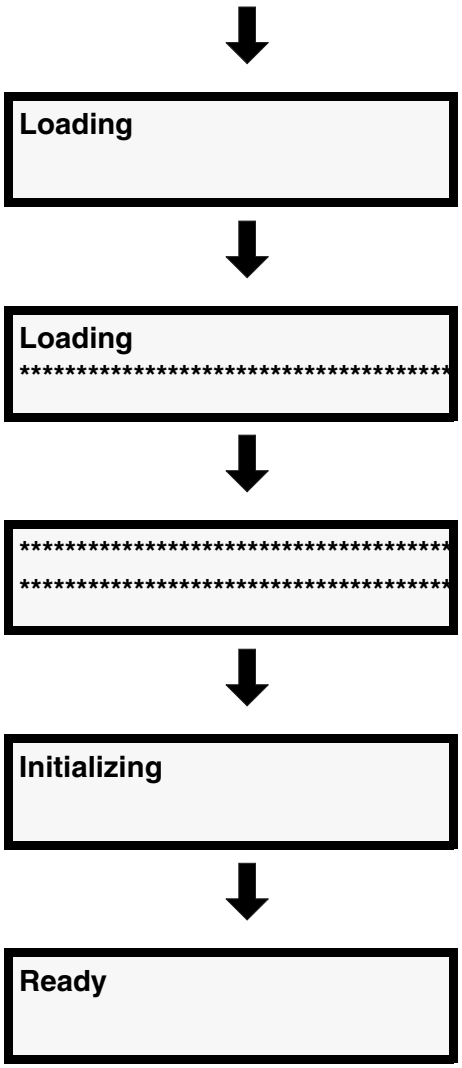
5. Re-insert the paper tray into the printer (see Chapter 3.2.1, "Print Media Guidelines").

2.8.2 Turning On the Printer

WARNING! *Should the printer generate abnormal heat, smoke, strange noise or offensive odors, immediately turn off the printer, and disconnect the power plug from the wall socket. Continuing to use the printer may cause fire or electric shock.*



1. Press the printer mains power to turn the printer power on.
2. If the printer power does not turn on, see Chapter 6.6, "Actions on Abnormal Printer Operation".
3. When you turn on the printer, ensure that the LCD in the control panel displays the information as shown on the left.



If a printer error is detected:

If a printer error is detected, the ERROR lamp in the control panel stays on, and an error message is shown. For details of error messages and error messages and actions to be taken see Chapter 6.1, "Control Panel LCD Messages".

2.8.3 Printing a Demo Page

Print a Demo Page according to the procedure below.

1. Ensure that the control panel is displaying Ready.

2. Press MENU key.

3. Press PREVIOUS until the display shows Functions.
4. Press SELECT key.

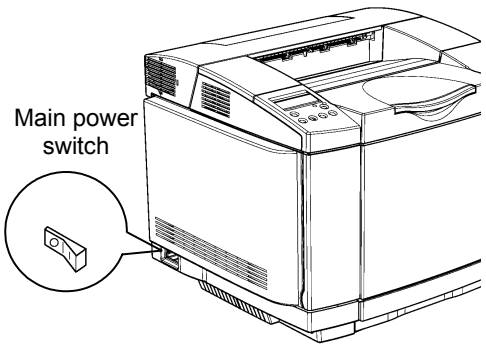
5. Press NEXT until the display shows Print Demo.
6. Press SELECT key.

7. The Demo Page will print and the printer returns to Ready Mode.

If a printing error occurs

If you find an error in the printed test pattern, see Chapter 6.3, "Actions on Print Quality Problems".

2.8.4 Turning Off the Printer

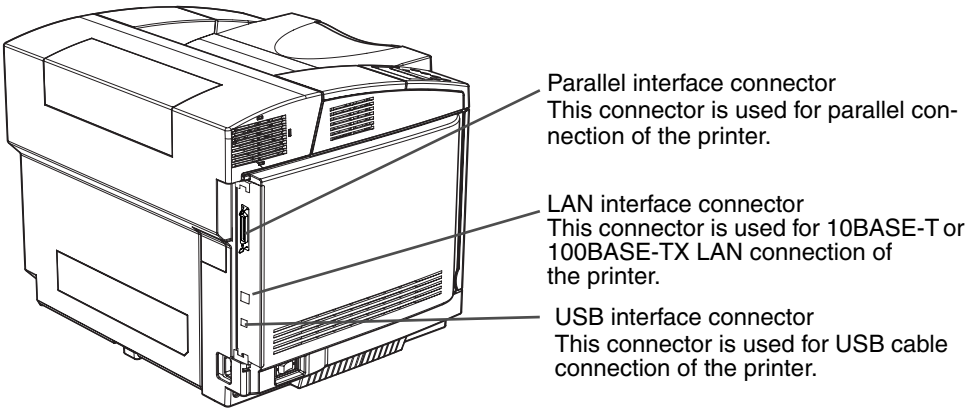


1. Check that the printer is not printing The panel should only be showing either ready or not ready.
2. Turn off the mains power switch.

2.9 Interface Cable

2.9.1 Connecting the Interface Cable

Turn off the printer, and connect an appropriate interface cable to the correct connector on the rear of the printer.


Parallel interface connector
This connector is used for parallel connection of the printer.
LAN interface connector
This connector is used for 10BASE-T or 100BASE-TX LAN connection of the printer.
USB interface connector
This connector is used for USB cable connection of the printer.

Turning the printer on

The top line of the LCD display reads:

```
Loading
```

followed by asterisks progressing across the bottom line:

```
**************
```

Following an LED self test, asterisks progress across both lines of the display

```
**************
**************
```

and the Power On Self Test ends with the top line of the display reading:

```
Ready
```

Note: *While turned on, the printer will go into the standby state if it remains idle for a period of time. If an error message appears, see "Functions of LCD and Lamps" on page 4-2.*

2.10 Selecting a Display Language

The default language for all LCD display messages and the Configuration Summary and Test Page is English. You can change the language to Espanol, Italiano, Deutsch or Francais. Additional entries included are Portugal, Dutch, Danish, Norwegian, Swedish, Greek, Polish, Russian, Turkish and Brazilian.

Note: *The language that you select will be reflected on all LCD display messages, and also the content of the Configuration Summary and Test Page.*

To change the default language from English to one of the other available selections:

1. From the Ready status, press MENU, the control panel display will read:

   ```
   Menu
   Paper
   ```

2. Press PREVIOUS or NEXT until the display reads:

   ```
   Menu
   System Menu
   ```

3. Press SELECT, the display will read:

   ```
   System Menu
   Factory Defaults
   ```

4. Press NEXT or PREVIOUS until the display reads:

   ```
   System Menu
   Display Language
   ```

5. Press SELECT, the display will read:

   ```
   System Menu
   English
   ```

6. Press NEXT or PREVIOUS until the desired default language appears on the bottom line of the display:

7. Press SELECT. You have now changed the default language.

2.11 Adjusting Color Alignment

This allows adjustment of the horizontal (K-H) and vertical (K-V) images on an A4 or letter based page. The horizontal adjustment is for the default source tray currently selected in the paper menu. It allows centering of printed images for this tray to be set.

There will also be an extra entry when an optional duplex unit is fitted and duplex is enabled in the paper menu. This entry allows the image on both sides of the duplexed paper to also be centered. The alignment procedure can also be run using test pages generated from your application and the printer drivers. These pages must have equal top, bottom left and right margins set and have ideally a box equally spaced from these margins as a reference.

2.11.1 Printing the Alignment Page

1. Press MENU.
2. Press NEXT until the display shows COLOR MENU.
3. Press SELECT.
4. Press NEXT until the display shows ALIGNMENT MENU.
5. Press SELECT - the display shows ALIGNMENT PAGE.
6. Press SELECT - the Alignment Page prints.

2.11.2 Perform the Adjustments

Adjustments

The K (black) plane must be aligned to the edge of the page.

1. Select the desired tray (press MENU >> PAPER MENU >> DEFAULT SOURCE).
2. Select the resolution to 600 DPI (press MENU >> QUALITY MENU >> RESOLUTION = 600).
3. Print the Alignment Page (press MENU >> COLOR MENU >> ALIGNMENT >> ALIGNMENT PAGE).

Set the K-V Adjustment

1. Press MENU >> COLOR MENU >> ALIGNMENT >> K-V Adj.
2. The vertical distance shown as K-V Adjust should be equal at the top and bottom of the page.
3. The adjustment for K-V is 1 to 15. Decreasing the number will move the grid image towards the top of the page.
4. The K-V adjustment applies to all paper sources.

Set the K-H Adjustment

1. Press MENU >> COLOR MENU >> ALIGNMENT >> K-H Adj. TRAY X where X is the number of the current default tray.
2. The horizontal distance shown as K-H Adjust should be equal at the left and right sides of the page.
3. The adjustment for K-H is 1 to 15. Decreasing the number will move the grid image towards the left edge of the page.
4. The K-H adjustment should be performed for each paper source.

Print the Alignment Page as needed to verify the adjustment.

2.12 Installing Printer Drivers and Locating User Documentation

2.12.1 Installing Printer Drivers and other Software for Windows

Follow the installation wizards on the CD. If using a plug and play port follow the Local port Installation Instructions on the CD.

2.12.2 Installing Printer Drivers for MacOS

To install printer drivers for MacOS, refer to the following folder on the Electronic Library CD-ROM:

- Printer Driver folder
  The Printer Driver folder contains the AdobePS driver installation kit, which can be used on OS9.x systems. There is also a PPD file for the printer which should be used with both os9.X and osX.X. These items are available in English, German, French, Italian, and Spanish.

  To install on MAC OSX copy the TG8008.ppd to the appropriate language directory. For english this is at library/printers/ppds/contents/resources/en.lproj directory. Ensure the printer is powered on and connected to the Mac.

  Restart the Mac, find the printer using the Printer Setup utility, select the TallyGenicom folder and Intelliprint 8008 for the print using section. For Mac os9.x copy the TG8008.ppd to systemfolder\extensions\printerdescriptions directory.

2.12.3 Locating User Documentation

To locate other documentation that will assist you in operating and maintaining your printer, go to the DOCUMENTATION folder on the Electronic Library CD-ROM. You can open and read these manuals directly from the CD-ROM, save the manuals to the hard drive of your computer, or print the manuals. The Documentation folder includes the following documents in Adobe PDF format:

- User Guide
- Printer Quick Start Guide (English, French, German, Italian, Spanish)
- Other installation and user guides for printer options

2.13 Printing a Configuration Summary

Your printer can print a configuration summary that lists the currently selected status of menu options, media selections in trays, options installed and other relevant information about your printer. To print a Configuration Summary, follow these steps:

1. From the Ready status, press MENU, the control panel display will read:

   ```
   Menu
   Job Library
   ```

2. Press PREVIOUS or NEXT until the display reads:

   ```
   Menu
   Functions
   ```

3. Press SELECT, the display will read:

   ```
   Functions
   Reset Printer
   ```

4. Press NEXT or PREVIOUS until the display reads:

   ```
   Functions
   Print Summary
   ```

5. Press SELECT. A two page Configuration Summary will print. An example of a Configuration Summary appears on the following page.

Note: *Depending upon the options installed and menu settings, your Configuration Summary may vary.*

TallyGenicom Intelliprint 8008N

MENUS

Paper Menu

Copies = 1
Duplex = Off
Duplex Bind = Long Edge
Default Source = Tray 1
Media Size/Type
Tray 1
Media Type = Plain
Custom Size
Width = 209
Length = 295
Use Custom Paper = Off
Auto-Sense = Cassette Type B
Tray 2
Media Type = Plain
Auto-Sense = Cassette Type B
Tray Linking = On
Blank Pages = Print
Auto Resize = Off
Separator Page = Off
Custom Size Unit = Millimitres

Interface Menu

Port
Parallel = On
Network Card 1 = On
USB = On
Parallel Setup
Interpreter = Auto Switch
Format = Raw
Mode = Bidirectional
Delay Out Close = Off
Binary PS = Off
Network 1 Setup
Interpreter = Auto Switch
Format = Raw
Network Address = 005027017B90
IP Address = 172.024.016.122
Subnet Mask = 255.255.252.000
Default Gateway = 172.024.016.073
LPD Banner = Off
DHCP = On
Delay Out Close = Off
Host Name = Intelliprint8008N017B90
mDNS = On
Local Link = 000.000.000.000
mDNS Host Name = Intelliprint8008N017B90
mDNS Svc Name = Intelliprint 8008N 017B90
Multi-Session = On
AppleTalk = On
Current Zone =
Preferred Zone = *
Network 1 Setup cont'd
Binary PS = Off
Connection Speed = Auto-Sense
USB Setup
Interpreter = Auto Switch
Format = Raw
Delay Out Close = Off
Binary PS = Off

PS Menu

Print PS Errors = Off

PCL Menu

Orientation = Landscape
Font Source = Internal
Font Number = 50
Pitch = 10.00
Symbol Set = 8U:Roman 8
Macro Filter = Off
Lines Per Page = 43
CR Mode = CR=CR
LF Mode = LF=LF
FF Mode = FF=FF
Print Area = Normal
Parameter Values
Paper Source
Tray 1 = 1
Tray 2 = 4
Auto-Select = 7
Paper Size
Executive = 1
Letter = 2
Legal = 3
Statement = 4
Folio = 5
A5 = 25
A4 = 26
B5 = 45
Com10 Envelope = 81
DL Envelope = 90
C5 Envelope = 91

System Menu

Display Language = English
Power Saver = 15
Wait Timeout = 20
Job Timeout = 0
Jam Recovery = On
Hex Print = Off
Intellifilter = On

Quality Menu

Resolution = 600 dpi
Toner Saver = Off

Adobe PostScript 3

HI-SPEED USB

TallyGenicom

Color Menu
Screening Mode = Enhanced
Rendering Intent = Photographic
Color Matching = On
Date/Time Menu
Month = July
Day = 7
Year = 2005
Hour = Midnight
Minute = 58
Second = 30
Offset from GMT
Hours = 0
Minutes = 0

STATUS

Tray 1
Media Size = A4
Media Type = Plain
Level = OK
Tray 2
Media Size = A4
Media Type = Plain
Level = OK
Face Down Tray = OK
Cyan Toner = OK
Magenta Toner = OK
Yellow Toner = OK
Black Toner = OK

INFORMATION

Product Version : 0.95 A5
PostScript Version : 3010.106
Engine Version : SL5 V140
Duplexor Version : DL5 V100
Network 1 Version : 10/100 Ethernet 1.2
Installed Memory : 256 Mbytes
Printer Name : Intelliprint 8008N 017B90
Serial Number :
Asset Tag :
Image Counter : 3877
Sheet Counter : 1806
Toner Page Count : 1806
HID=A1:2014,A2:81,S1:9,
M1:A8ACC0000000,P1:00007035
Date/Time : July 7, 2005 00:58:30 AM
SF1 : 0000F38F*

OPTIONS

Duplex Installed
HCF Installed
User FLASH Installed
Hard Drive Installed
Extended Font Set 1 Installed

2.14 Printing PCL and PostScript Font Lists

Your printer has the capability of printing lists of all installed PCL or PostScript fonts. To print a Font List, follow these steps:

1. From the Ready status, press MENU, the control panel display will read:

   ```
   Menu
   Job Library
   ```

2. Press PREVIOUS or NEXT until the display reads:

   ```
   Menu
   Functions
   ```

3. Press SELECT, the display will read:

   ```
   Functions
   Reset Printer
   ```

4. Press NEXT or PREVIOUS until the display reads:

   ```
   Functions
   Print Fonts
   ```

5. Press SELECT, the display will read:

   ```
   Print Fonts
   PCL Fonts
   ```

Note: *You may toggle between PCL Fonts and Postscript Fonts using the PREVIOUS or NEXT push-buttons.*

6. Press SELECT. A multi page resident Font List will print.

2.15 Notes on Moving the Printer

CAUTION! *Have two or more persons carry the printer. Pay attention not to hurt your back or drop the printer; otherwise, you may suffer from injury. The printer itself weighs about 29 kg/63.9 lb.*

- When carrying the printer:
  - Remove the Paper Feeder option and the Duplex Unit option, if any, from the printer before carrying it.
  - When carrying the printer, keep it horizontal. If you tilt the printer, consumables may spill in the printer, causing trouble.
  - Subjecting the printer to shocks or strong vibration may cause it not to work. When carrying the printer on a trolley, push it slowly and carefully.
- When transporting the printer:
  When transporting the printer, the consumables need to be removed and the inside of the printer need to be cleaned for repacking. These actions must be conducted by a qualified service engineer on a chargeable basis.

Chapter 3
Basic Printer Operations

3.1 Turning On and Off 3-2

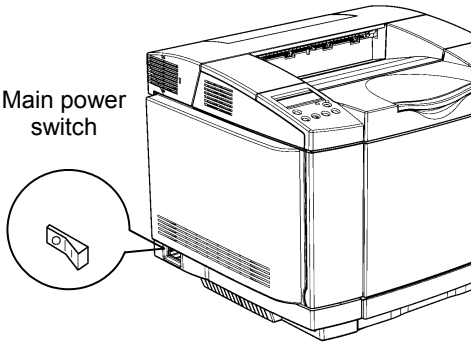
3.2 Loading Paper Trays with Print Media 3-4

3.1 Turning On and Off

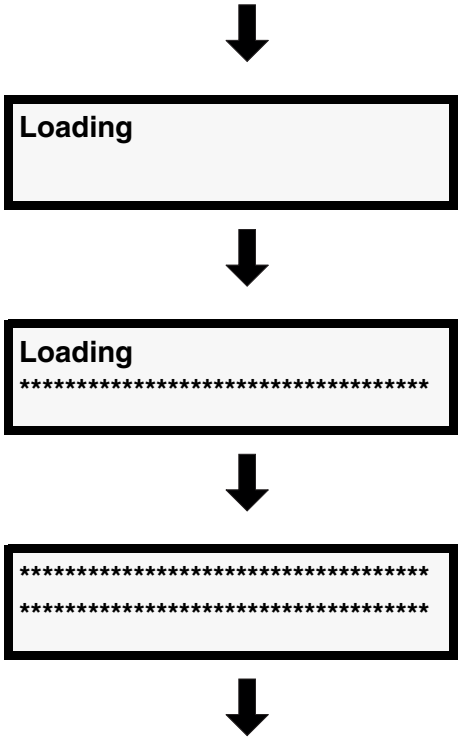
WARNING! *If the printer generates abnormal heat, smoke, strange noises or offensive odors, immediately turn off the printer, and disconnect the power plug from the wall outlet. Continuing to use the printer may cause fire or electric shock.*

3.1.1 Turning On the Printer

When you turn off the printer, wait 20 seconds or more before turning it back on.



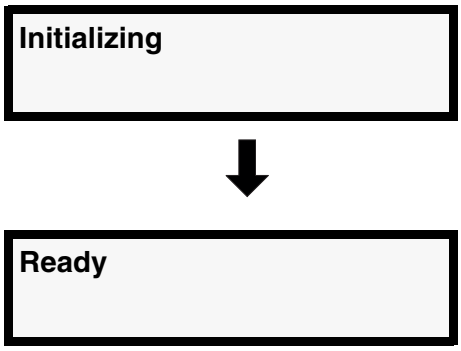
1. Press the printer mains power to turn the printer power on.
2. If the printer power does not turn on, see Chapter 6.6, "Actions on Abnormal Printer Operation".



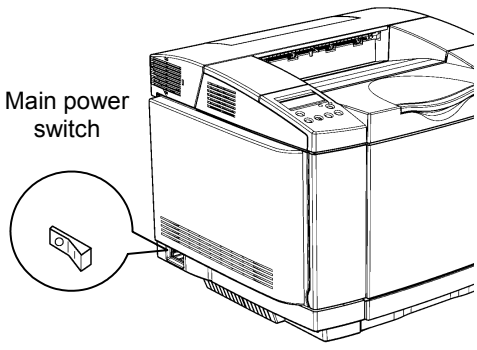
3. When you turn on the printer, ensure that the LCD in the control panel displays the information as shown on the left.

If a printer error is detected:

If a printer error is detected, the ERROR lamp in the control panel stays on, and an error message is shown. For details of error messages and error messages and actions to be taken, see Chapter 6.1, "Control Panel LCD Messages".



3.1.2 Turning Off the Printer



1. Check that the printer is not printing The panel should only be showing either ready or not ready.
2. Turn off the mains power switch.

3.2 Loading Paper Trays with Print Media

3.2.1 Print Media Guidelines

Print Media Specifications

The tables below show the specifications for print media based on feeder and print mode.

Inbuilt feeder in Simplex Print

Media type	Media specifications	Tray capacity	Media size (W x L in mm)
Plain paper	For laser printer. Weight: 60 to 90 g/m^2.	About 250 sheets	A4 (210 x 297) A5(148.5 x 210) B5 (ISO) (176 x 250) B5 (JIS) (182 x 257) Letter (215.9 x 279.4) Half Letter (139.7 x 215.9) Executive (184.2 x 266.7) Legal[1] (215.9 x 355.6) Custom (100 to 215.9 x 210 to 297 or 355.6[3])
Thick paper	For laser printer. Weight: 90 to 210 g/m^2. Thick 1 typically 90 to 105 g/m^2. (24 to 28 lbs). Thick 2 typically 106 to 163 g/m^2 (29 to 43 lbs). Thick 3 setting typically 164 to 210 g/m^2 (43 to 55 lbs).	About 120 sheets	
Label	For laser printer. Capable of continuous formfeed.	About 80 sheets	
OHP film (transparency)	For laser printer.[2]	About 50 sheets	A4 (210 x 297) Letter (215.9 x 279.4)
Envelope[4]	Non-flap side only.	About 15 sheets (excluding H/H condition)	Commercial #10 (104.8 x 241.3) International DL (110 x 220)

1 Requires optional paper tray capable of loading up to legal size media.

2 Certain types of OHP films (transparencies) are not designed for laser printers. Use of such transparencies sometimes causes severe damage to the printer, necessitating repair.

3 Max. length of custom media size is 297 mm for standard paper tray and 355.6 mm for optional paper tray capable of loading up to legal size media.

4 When using envelopes only the central area of the envelope can be guaranteed to be crease free after printing. This restriction is due to the envelope construction.

All media should be tested prior to purchase of the printer.

Optional feeder in Simplex Print

Media type	Media specifications	Tray capacity	Media size (W x L in mm)
Plain paper	For laser printer. Weight: 60 to 90 g/m^2 (16 to 24 lbs).	About 500 sheets	A4 (210 x 297) B5 (ISO) (176 x 250) B5 (JIS) (182 x 257) Letter (215.9 x 279.4) Executive (184.2 x 266.7)
Thick paper	For laser printer. Weight: 90 to 105 g/m^2 (24 to 28 lbs).		

All media should be tested prior to purchase of the printer.

Duplex Print

Media type	Media specifications	Media size (W x L in mm)
Plain paper	For laser printer. Weight: 60 to 90 g/m^2 (16 to 24 lbs).	A4 (210 x 297) B5 (ISO) (176 x 250) B5 (JIS) (182 x 257) Letter (215.9 x 279.4) Executive (184.2 x 266.7) Legal[1] (215.9 x 355.6) Custom (100 to 215.9 x 210 to 297)[2]
Thick paper	For laser printer. Weight: 90 to 105 g/m^2 (24 to 28 lbs).	

1 Applicable only to optional paper tray capable of loading up to legal size media in Tray 1.

2 Custom paper size is only supported using the in built feeder, it is not supported in the optional feeder.

All media should be tested prior to purchase of the printer.

Not Usable Print Media

Print Media which is not usable in the Intelliprint 8008N includes:

- Thick or thin sheet out of the specifications
- Media other than those for the laser printer
- Thermally sensitive paper or films, e.g., thin OHP films (transparencies)
- Processed media, e.g., perforated media or media with holes for a binder
- Media with staples, paperclip or tape attached to it
- Preprinted forms, printed media, and media printed by a copier (Using media previously output from a printer or copier may cause jams or other trouble.)
- Media that is creased, wrinkled, warped, blotched, or torn
- Moist or wet media
- Media left out for a long period after it has been taken out of their package
- Media with adhesive such as paste

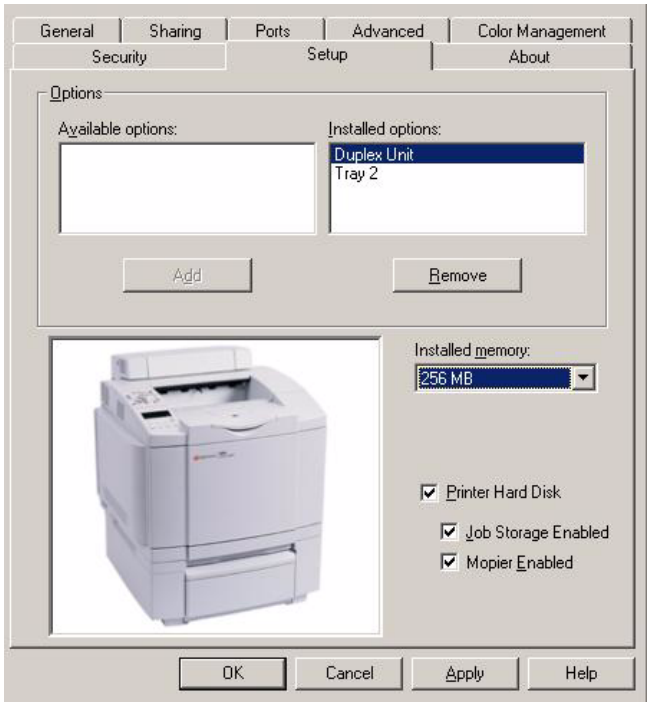
- Label media where there is no label material being used to fill in between the labels.
- Slippery media
- Rough media, e.g., low-grade paper and traditional Japanese paper
- Poorly cut media
- Carbon and coated media
- Media covered with a lot of powder or containing a high proportion of calcium carbonate
- Previously used labels

Notes on print media

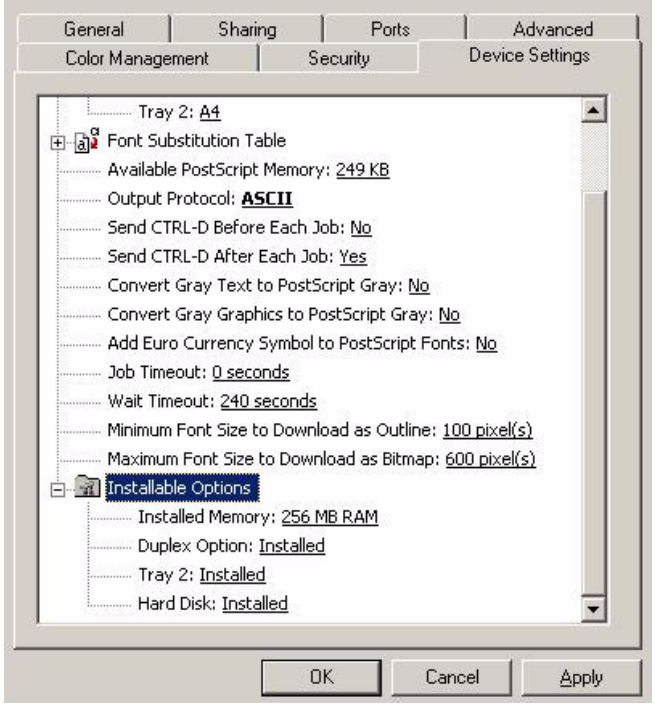
- Do not use media for ink jet printer.
- Difference between the grain (orientation of paper fiber) and the printer's paper feed direction may cause frequent jams. It is advisable to use media having portrait grain i.e. grain which is parallel to the paper feed direction.
- Some types of media may result in frequent jams or poor printing quality. When determining the media to use, fully check the printing quality and make sure jams do not occur.
- Some types of media may shorten the lifespan of the printer's components and consumables. In particular, printing a large amount of recycled paper, thick paper, envelopes, or labels shortens the lifespan.

3.2.2 Selection of Feeder and Duplexer

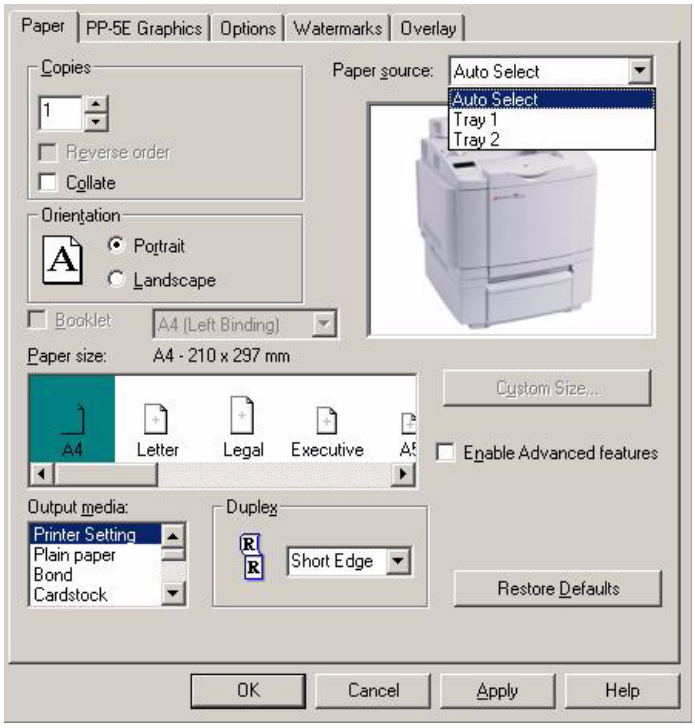
If you have installed an optional duplexer or feeder you will have to add these options within your printer driver. .



Select the options on the left side of the screen and click the **Add** button to add this as an installed option within the printer driver.



Select one of the Paper Source settings on the printer driver according to your required input tray. An example is shown below. You may also specify the input tray from within some application programmes.



1. Open the printer properties and click the Page Setup tab.
2. Specify the correct paper size
3. Select Paper Source according to your requirement.
   - ▶ Auto Select: Automatically selects the input tray containing media of the specified size.
   - ▶ Tray 1 or tray 2: Selects the specified input tray.
4. Click the **OK** button to confirm your settings.

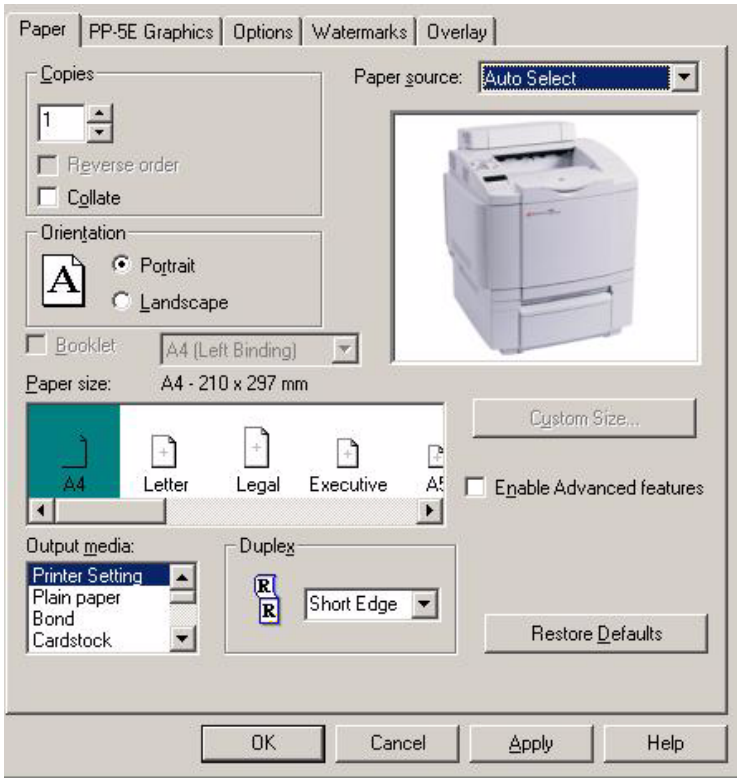
Notes on paper feeder

- A5, Half Letter, Commercial #10, International DL, or Custom size media are only fed from cassette 1. Legal size media can only be fed from tray 1 using the USA only available optional input tray for sizes up to Legal media sizes.
- If the Media Type setting on the printer driver is Label, Transparency, Thick3, Thick2 or Envelope, the print media can only be fed from tray 1.

3.2.3 Duplex Printing

To print with the Duplex Unit option on both sides of the sheet, it is necessary to specify the duplex print on the printer driver according to the procedure below.

See the printer driver help of Windows or Macintosh installation chapter for further information.



1. Open the printer properties and click the Page Setup tab.
2. Check the Duplex Print checkbox.
3. Click the **OK** button to validate your settings.

Notes on duplex printing

In any of the following cases, the printer performs simplex print regardless of the above setting.

- When the Media Type setting is Label, Transparency, Thick2, Thick3, Special or Envelope.
- When the Paper Size setting is A5, Half Letter, Commercial #10, International DL, or Custom.

Chapter 4
Control Panel Functions

4.1 Functions of LCD and Lamps 4-2
4.2 Functions of Control Panel Keys 4-3
4.3 Navigating the Control Panel Menus 4-4
4.4 Menu Structure 4-6
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4.15 Date/Time Menu (option) 4-27
4.16 Functions Menu 4-29
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4.18 DISK Menu 4-31

4.1 Functions of LCD and Lamps

This chapter explains the control panel and its functions, and also demonstrates how to navigate through the control panel menus and submenus that allow you to view and change the printer settings. Web access to the printer is also discussed.

4.1.1 LCD Display and LED Indicators

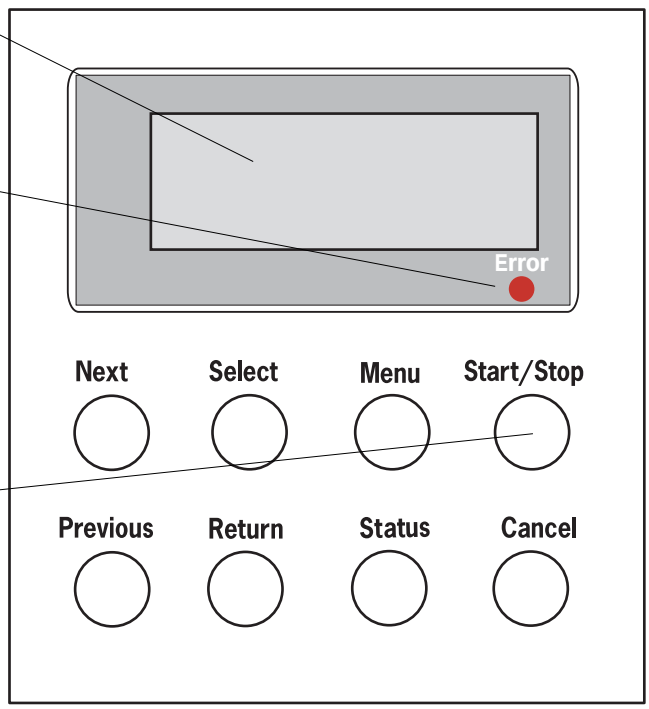
The LCD display shows status and error messages that inform you of the current status of the printer, and also displays menus, submenus and printer settings when you are in the menu system. The display contains two lines of text, each with a maximum of sixteen characters.

The LED indicators also indicate printer status. The three indicators can each be on, off, or blinking, indicating different phases of printer operation. The table below explains the LED indicators.

LCD (16 characters x 2 rows):
Displays messages relating to the state of the printer.

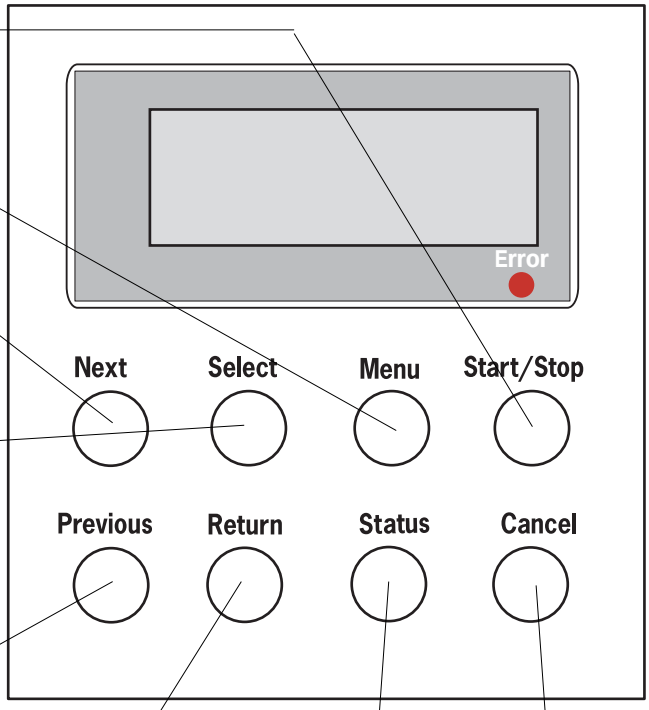
ERROR lamp (Red):
Lit when there is an error that requires user intervention, such as a paper jam, a service call required, etc.

START/STOP lamp (Green):
Lit when printer is ready to receive and print jobs and turned off when printer is not. If no error condition exists pressing the “Start/Stop” key which the led is part of toggles the status.



4.2 Functions of Control Panel Keys

The control panel buttons allow you to access and navigate menus, and also assist you in recovering from printer errors. The table below explains the functions of the eight pushbuttons.



START/STOP key
Push this button to start or stop the printer, or to exit the menu system.

MENU key
Push this button to enter the menu system..

NEXT key
Push this button to move to the next menu, submenu, or setting within the same level of menu structure..

SELECT key
Push this button to select the menu or submenu that is shown on the second line of the display or to choose and save the setting shown on the second line of the display.

PREVIOUS key
Push this button to return to the previous menu, submenu, or option within the same level of menu structure.

RETURN key
Push this button to move up one level in the menu structure to the menu shown on the first line of the display.

STATUS key
Push this button to view the current status of the paper trays..

CANCEL key
Push this button to cancel an action.

4.3 Navigating the Control Panel Menus

When you press the **MENU** button on the control panel, you enter the printer's menu system. At that point, the first line of the display contains the text "**Menu**", indicating that you are in the menu system. The second line of the display lists the active menu, which you can change by pressing the **NEXT** or **PREVIOUS** button.

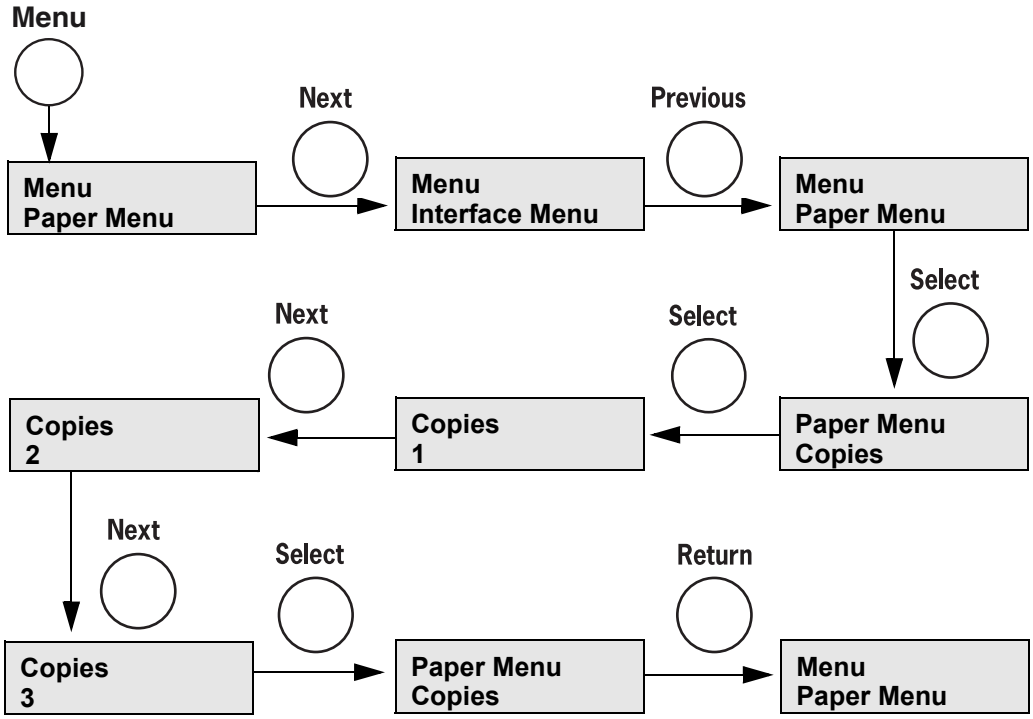
Menu **Job Library**

If you press the **NEXT** button repeatedly, the second line of the display cycles through the main menus in the following order:

- Job Library
- Job Accounting
- E-Forms
- Paper Menu
- Interface Menu
- PS Menu
- PCL Menu
- System Menu
- Quality Menu
- Color Menu
- Date/Time Menu (option)
- Functions
- Flash Menu

Note: *Additional menus and submenus may appear in the printer menu system when other options are installed.*

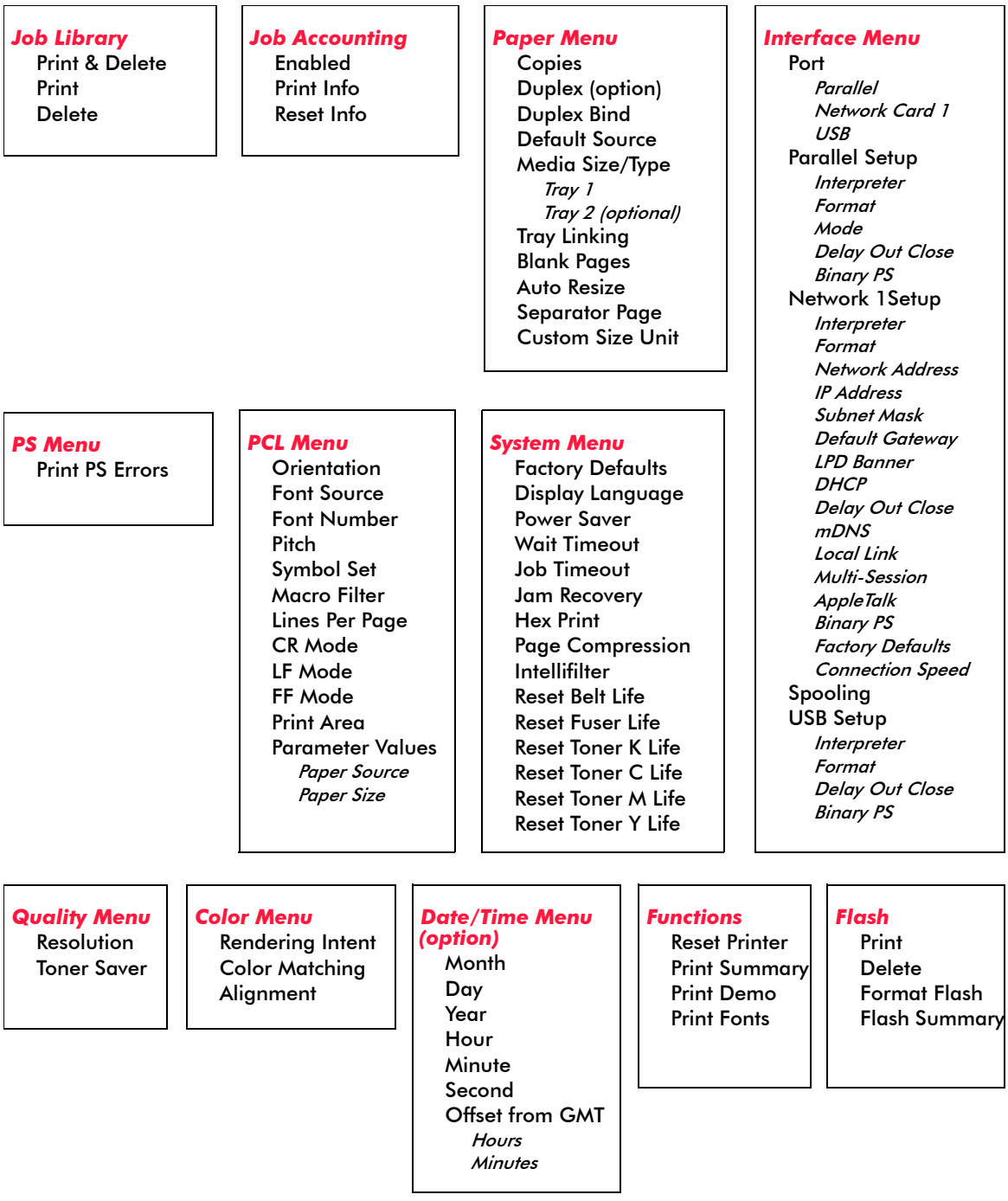
The following figure shows the sequence of pushbuttons and display messages that would allow you to change the number of copies printed. This example illustrates the basic relationship between menus and submenus and demonstrates how the **NEXT, PREVIOUS**, **SELECT** and **RETURN** buttons help you to navigate through the menus.



1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Paper Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the paper menu.
4. Press the **NEXT** button until the text "**Copies"** is shown on the second line of the display.
5. Press the **SELECT** button to enter the copies submenu.
6. Press the **NEXT** or **PREVIOUS** button to increase or decrease the number of copies printed.
7. Press the **SELECT** button to save this setting.
8. Press the **START/STOP** button to exit the menu system.

4.4 Menu Structure

The following figure shows the structure of the control panel main menus and submenus.



Note: *Additional menus and submenus may appear in the printer menu system when other options are installed.*

4.5 Status Menu

In addition to the main menus listed above, the printer also provides a status menu that allows you to view the current printer settings. Push the **STATUS** button to enter the Status Menu.

4.6 Job Library

1. Press the MENU button on the control panel.
2. Press the **NEXT** button until the text "**Job Library**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Job Library menu.
4. Press the **NEXT** button to move through the submenus: **Print** or **Delete**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings.

Submenu	Default Setting	Available Settings	Procedure for Changing Setting
Print	Print User Folder 1		1. Press NEXT or PREVIOUS to scroll through the User Folder Names. 2. Press SELECT to choose the desired User Folder.
Print	Print Job1		1. Press NEXT or PREVIOUS to scroll through the Print Job Names. 2. Press SELECT to choose the desired Print Job.
	Job Name PIN	This step is necessary if the job is a PRIVATE job.	1. Press NEXT or PREVIOUS to increase or decrease each digit of the four-digit number. 2. Press SELECT to set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
Print	Job Name Copies – Select 1 – 99		1. Press NEXT or PREVIOUS to increase or decrease each digit of the two-digit number. 2. Press SELECT set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
Print	Job Name Copies		1. Press SELECT to print the job.
Print	Printing Playback		1. The printer will display PRINTING on Line 1 and PLAYBACK on Line 2 of the display while printing the job.
Delete	Delete (To delete a saved job)		1. Press NEXT or PREVIOUS to scroll through Print or Delete options. 2. Press SELECT to choose Delete.
	Delete User Folder 1		1. Press NEXT or PREVIOUS to scroll through the User Folder Names. 2. Press SELECT to choose the desired User Folder.

Submenu	Default Setting	Available Settings	Procedure for Changing Setting
	Delete Job1		1. Press NEXT or PREVIOUS to scroll through the Print Job Names. 2. Press SELECT to choose the desired Print Job to Delete.
	Job Name PIN	This step is necessary if the job is a PRIVATE job.	1. Press NEXT or PREVIOUS to increase or decrease each digit of the four-digit number. 2. Press SELECT to set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.

4.6.1 Job Library Errors

When a Job Library error occurs, the following message will be displayed:

JOBLIB Error XX
Press Start

This is a continuable-fault, which means the START key must be pressed to allow operations to continue. If the current job is aborted as a result of the error, the message"Canceling Job" may be displayed after START is pressed. "XX" in the error display above is an error code. The error codes for this message are:

- 01 – Data stream was missing a Job Name specification. (Job will be aborted.)
- 02 – Data stream was missing a User Name specification. (Job will be aborted.)
- 03 – Data stream was missing a PIN specification. (Job will be aborted.)
- 04 – Attempted to overwrite a PRIVATE job, but PIN did not match. (Job will be aborted.)
- 05 – Insufficient storage. (Job will be aborted only if it is a PRIVATE job.)

4.7 Job Accounting

The Job Accounting Menu provides access to functions and settings related to this feature. Use the following procedure to enter the Job Accounting Menu to change the settings or access the functions:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Job Accounting**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Job Accounting menu.
4. Press the **NEXT** button to move through the submenus: **Enabled**, **Print Info**, **Reset Info**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings.

SubMenu	Default Settings	Available Settings	Procedure for Changing Setting
Enabled	No	Yes No	1. Press NEXT or PREVIOUS to scroll through Yes or No options. 2. Press SELECT to choose Yes to turn on this function.
Print Info			1. Press SELECT to begin printing the Job Accounting Summary Report.
Reset Info			1. Press SELECT to reset the Job Accounting Information. This will delete all stored information related to jobs received by the printer.

4.8 Paper Menu

Note: *It is important in order to maximize the life and reliability of both the printer and consumables that the media type setings in the menu matches the type of media which is present in the tray. In addition some media types cannot be fed from the optional tray 2 or be used with the optional duplex unit.*

The **Paper Menu** provides access to the printer settings for various paper-handling functions. Use the following procedure to enter the paper menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Paper Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Paper menu.
4. Press the **NEXT** button to move through the submenus.
5. Use the procedures in the following table to access and change the printer paper-handling settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Copies This submenu allows you to change the number of copies printed.	1	Numbers 1 – 999	1. Press NEXT or PREVIOUS to increase or decrease the number of copies printed. 2. Press SELECT to save this setting.
Duplex This submenu allows you to turn the duplex on or off.	Off	On/Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Duplex Bind This submenu allows you to choose between LEF (Long Edge Feed) and SEF (Short Edge Feed).	Long Edge feed	Long Edge/Short Edge	1. Press NEXT or PREVIOUS to toggle between Long Edge and Short Edge. 2. Press SELECT to save this setting.
Default Source This submenu allows you to choose a default paper source from a list of all installed sources.	Tray 1	Tray 1 Tray 2 (optional)	1. Press NEXT or PREVIOUS to scroll through the list of available sources of paper. 2. Press SELECT to set a source as the default.

Submenus	Default Setting	Available Settings					Procedure for Changing Setting
Media Size/ Type This submenu allows you to set the media type, media size, and set auto-sensing on or off for all the trays.	Tray 1 Type: Plain Tray 2 (optional) Type: Plain	Media Type Thick 1, Plain, Trans-parency, Pre-punched, Letter-head, Colored, Pre-printed, Bond, Label, Thick 2, Thick 3, Card stock, Postscard, Envelope Thick 2, Thick 3, transpa-rency, label and envelopes cannot be fed from tray 2 or duplexed.	Media Size Tray 1 A4 , letter, Custom (simplex width 100 to 215.9 mm length 210 to 297 mm; duplex width 176 to 215.9 mm length 250 to 297 mm), B5, A5, Statement, Executive, C5 Envelope DL Envelope, Com10 Envelope, Monarch Envelope, Legal, Folio Tray 2 Legal, Folio, Letter, A4, Executive, B5	Auto-Sense Off, Cassette Type A, Cassette Type B, Cassette Type C This feature allows the tray to automaticall y detect the size of the paper in the tray. The only sizes that are automaticall y detected are: Letter, A4, Legal When set type A the following additional sizes can be detected commercial # 10 and ISO B5. Type B detects DL and ISO B5. Type C should not be selected in this printer as it requires additional paper supports.	Custom size Valid settings for use with tray 1 only are (simplex width 100 to 215.9 mm length 210 to 297 mm duplex width 176 to 215.9 mm length 250 to 297 mm)	Use Custom Paper Select either on or off. Auto-Sense must be set to off to see and use this setting.	1. Press NEXT or PREVIOUS to scroll through the list of available sources of paper. 2. Press SELECT to choose a tray. 3. Press NEXT or PREVIOUS to toggle between MEDIA TYPE, MEDIA SIZE and AUTO-SENSE. 4. Press SELECT to choose either. 5. Press NEXT or PREVIOUS to scroll through the available sizes or types. 6. Press SELECT to set a size or type.

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Tray Linking This submenu allows you to turn the tray linking function on or off.	On	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Blank Pages This submenu allows you to choose to either print or not print blank pages of a document.	Print	Print Do Not Print	1. Press NEXT or PREVIOUS to toggle between PRINT and DO NOT PRINT. 2. Press SELECT to save this setting.
Auto Resize This menu will scale the output of a Postscript job to the size selected. It does not scale a PCL job.	Off	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Separator Page Prints a blank page between print jobs.	Off	Tray 1, Tray 2 (optional) Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Custom Size Unit This menu is used to set the unit of measurement for the Custom Paper Size feature.	Inches	Inches Millimitre	1. Press NEXT or PREVIOUS to toggle between INCHES and MILLI-MITRE. 2. Press SELECT to save this setting.

4.9 Interface Menu

The **Interface Menu** provides access to the printer interface settings. Use the following procedure to enter the interface menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Interface Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Interface menu.
4. Press the **NEXT** button to move through the submenus: **Port**, **Parallel Setup**, **Network 1 Setup**, **Spooling** and **USB Setup**.
5. Use the procedures in the following table to access and change the printer interface settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Port This submenu allows you to enable the type of interface.	**Parallel:** On Network Card 1: On USB: On	**Parallel:** On, Off Network Card 1: On, Off USB: On, Off	1. Press NEXT or PREVIOUS to toggle between PARALLEL, NETWORK CARD 1 and USB. 2. Press SELECT to save this setting.
Parallel Setup This submenu allows you to set up the parallel interface.	**Interpreter:** Auto Switch Format: Raw Mode: Bidirectional Delay Out Close: Off Binary PS: Off	**Interpreter:** Auto Switch PCL PostScript 3 Format: Raw Normal Binary Mode: Bidirectional Standard Delay Out Close: Off On Binary PS: Off On	1. Press NEXT or PREVIOUS to scroll through the INTERPRETER, FORMAT, MODE, DELAY OUT CLOSE and BINARY PS submenus. 2. Press SELECT to choose a submenu. 3. Press NEXT or PREVIOUS to scroll through the settings. 4. Press SELECT to choose and save a setting.

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Network 1 Setup This submenu allows you to set up the Network interface.	**Interpreter:** Auto Switch Format: Raw Network Address: cannot be changed IP Address: (user-specified) Subnet Mask: (user-specified) Default Gateway: (user-specified) LPD Banner: On DHCP: Off Delay Out Close: Off mDNS: On Local Link: automatically set by host, cannot be changed Mulit-Session: On AppleTalk: On Binary PS: Off Factory Defaults: On Connection Speed: Auto-Sense	**Interpreter:** Auto Switch PCL PostScript 3 Format: Raw Normal Binary Network Address: IP Address: (user-specified) Subnet Mask: (user-specified) Default Gateway: (user-specified) LPD Banner: On, Off DHCP: Off, On Delay Out Close: Off, On mDNS: On, Off Local Link: Mulit-Session: On, Off AppleTalk: On, Off Binary PS: Off, On Factory Defaults: On, Off Connection Speed: Auto-Sense, 10Mbit Full, 10Mbit Half, 100Mbit Full, 100Mbit Half	1. Press NEXT or PREVIOUS to move among the submenus. 2. Press SELECT to choose a submenu. 3. Press NEXT or PREVIOUS to scroll through the settings. 4. Press SELECT to save this setting.

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Spooling The spool ing feature allows print jobs to be automatically spooled to the Hard Disk or Flash memory. This is a diagnostic tool.	**Start Spooling:** Spool and Print Spool Only Stop Spooling: Disables spooling Playback: Used to read a file from the user Flash Delete: Use to delete a spool file from the User Flash. Destination: User Flash Disk		1. Press NEXT or PREVIOUS to scroll through the SPOOLING submenus. 2. Press SELECT to choose a submenu. 3. Press NEXT or PREVIOUS to scroll through the settings. 4. Press SELECT to save this setting.
USB Setup This submenu allows you to set up the USB interface.	**Interpreter:** Auto Switch **Format:** Raw **Delay Out Close:** Off Binary PS: Off	**Interpreter:** Auto Switch PCL PostScript 3 **Format:** Raw Normal Binard **Delay Out Close:** Off On Binary PS: Off On	1. Press NEXT or PREVIOUS to scroll through the INTERPRETER, FORMAT, DELAY OUT CLOSE and BINARY PS submenus. 2. Press SELECT to choose a submenu. 3. Press NEXT or PREVIOUS to scroll through the settings. 4. Press SELECT to save this setting.

4.10 PS Menu

The PS Menu provides access to the PostScript settings. Use the following procedure to enter the PS Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**PS Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the PS menu.
4. Press the **NEXT** button to move through the submenu: **Print PS Errors**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the PostScript settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Settings
Print PS Errors This submenu allows you to choose to either print or not print PS errors.	**Off**	**On** Off	1. Press NEXT or PREVIOUS to toggle between ON (print) and OFF (do not print). 2. Press SELECT to save this setting.

4.11 PCL Menu

The **PCL Menu** provides access to the PCL settings. Use the following procedure to enter the PCL menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**PCL Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the PCL menu.
4. Press the **NEXT** button to move through the submenus: **Orientation**, **Font Source**, **Font Number**, **Pitch**, **Symbol Set**, **Macro Filter**, **Lines Per Page**, **CR Mode**, **LF Mode**, **FF Mode** and **Print Area**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the PCL settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Orientation This submenu allows you to choose the orientation of the page.	Portrait	Portrait Landscape	1. Press NEXT or PREVIOUS to toggle between PORTRAIT and LANDSCAPE. 2. Press SELECT to choose and save an orientation.
Font Source This submenu allows you to choose a font source.	Internal	Internal	1. Press NEXT or PREVIOUS to scroll through the available font sources. 2. Press SELECT to choose and set a source.
Font Number This submenu allows you to set the font number.	12	Numbers 0 – XX	1. Press NEXT or PREVIOUS to increase or decrease the font number. 2. Press SELECT to save this setting.

Submenus	Default Setting	Available Settings		Procedure for Changing Setting
Pitch This submenu allows you to change the pitch of text. This item changes based on whether a fixed pitch or scalable font is selected.	10.00	0.08 – 100.00		1. Press NEXT or PREVIOUS to increase or decrease the pitch. 2. Press SELECT to save this setting.
Symbol Set This submenu allows you to choose a symbol set.	10U:PC-8 CP437	8U:Roman-8 0N:ISO-8859/1 Latin1 2N:ISO-8859/2 Latin2 5N:ISO-8859/5 Latin5 10U:PC-8 11U:PC-8 Danish/Norwegian 12U:PC-850 17U:PC-852 9T:Turkish PC-8 19U:Win 3.1 Latin 1 9E:Win 3.1 Latin 2 5T:Win 3.1 Latin 5 7J:Desk Top 10J:PS Text 13J:Ventura International 14J:Ventura US 6J:Microsoft Publishing 8M:Math-8 5M:PS Math 6M:Ventura Math 15U:Pi Font 1U:Legal 1E:ISO-4 United Kingdom 0U:ISO-6 US ASCII 0S:ISO-11 Swedish Names 0I:ISO-17 Spanish 2S:ISO-15 Italian 1G:ISO-21 German 0D:ISO-60 Norwegian v1 1F:ISO-69 French 9U:Win 3.0 Latin 1 19M:Symbol 579L:Wingdings 15Y:HP ZIP Code 2U:ISO-2 IRV 3S:ISO-10 Swedish/Finnish 0K:ISO-14 JIS ASCII 4S:ISO-16 Portuguese 0F:ISO-25 French 2K:ISO-57 Chinese 1D:ISO-61 Norwegian v2 5S:ISO-84 Portuguese 6S:ISO-85 Spanish 0G:HP German 1S:HP Spanish 90D:ISO Dutch	0E:Roman Extensions 91S:ISO Swedish 1 92S:ISO Swedish 2 93S:ISO Swedish 3 2001Z:IBM Code Page 437 2002Z:IBM Code Page 850 20U:IBM Code Page 860 23U:IBM Code Page 863 25U:IBM Code Page 865 8Q:PC Set 1 9Q:PC Extension US 2003Z:PC Extension D/N 2004Z:PC Set2 US 2005Z:PC Set2 D/N 12J:MC Text 2006Z:CWI Hungarian 16U:Turkish Code Page 857 2007Z:Kamenicky (MJK) 15H:Hebrew NC (862) 2015Z:Hebrew OC 24Q:Polska Mazovia 6N:ISO-8859/10 Latin6 2009Z:Hebrew Win 3.1 9R:Cyrillic Win 3.1 3R:PC-866 (Cyrillic 2) 9G:Greek Win 3.1 11G:PC-869 (Greek) 10R:PC-855 (Cyrillic) 12G:Greek 437 2010Z:Greek 437 Cyprus 2011Z:Greek 928 2012Z:Serbo Croat II 14R:Ukrainian 13R:Bulgarian 0O:OCR-A 1O:OCR-B 10L:PS ITC Zapf Dingbats 9J:PC1004 19L:Windows Baltic 26U:PC775 2013Z:Serbo Croat 1 9N:ISO-8859-15 2014Z:Greek 737 10V:Arabic 864	1. Press NEXT or PREVIOUS to scroll through the available symbol sets. 2. Press SELECT to choose and set a symbol set.

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Macro Filter This submenu allows you to turn the macro filter on or off.	Off	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Lines Per Page This submenu allows you to change the number of lines per page.	60	5 – 128	1. Press NEXT or PREVIOUS to increase or decrease the lines per page. 2. Press SELECT to save this setting.
CR Mode This submenu allows you top define the action prompted by a carriage return – a carriage return equals either a carriage return alone, or a carriage return and a line feed together.	CR = CR	CR = CR CR = CR/LF	1. Press NEXT or PREVIOUS to choose from CR=CR or CR=CR/LF. 2. Press SELECT to save this setting.
LF Mode This submenu allows you to define the action prompted by a line feed – a line feed equals either a line feed alone or a carriage return and a line feed together.	LF = LF	LF = LF LF = CR/LF	1. Press NEXT or PREVIOUS to choose from LF=LF or LF=CR/LF. 2. Press SELECT to save this setting.
FF Mode This submenu allows you to define the action prompted by a form feed—a form feed equals either a form feed alone or a carriage return and a form feed together.	FF = FF	FF = FF FF = CR/FF	1. Press NEXT or PREVIOUS to choose from FF=FF or FF=CR/FF. 2. Press SELECT to save this setting.

Submenus	Default Setting	Available Settings		Procedure for Changing Setting
Print Area This submenu allows you to set the print area.	Normal	Normal Expanded		1. Press NEXT or PREVIOUS to toggle between the NORMAL and EXPANDED settings. 2. Press SELECT to save this setting.
Parameter Values	Paper Source: Paper Size: Executive	Paper Source: Tray 1 (=0001) Tray 2 (=0004 – optional tray) Auto-select (=0007)	Paper Size: Letter (=0002) Legal (=0003) A6 (=0024) A5 (=0025) A4 (=0026) B5 (=0045) Com10 Envelope (=0081) DL Envelope (=0090)	1. Press NEXT or PREVIOUS to toggle between the PAPER SOURCE and PAPER SIZE submenus. 2. Press SELECT to choose a submenu. 3. Press NEXT or PREVIOUS to scroll through the settings. 4. Press SELECT to save this setting.

4.12 System Menu

The system menu provides access to system settings. Use the following procedure to enter the system menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**System Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the System menu.
4. Press the **NEXT** button to move through the submenus: **Factory Defaults**, **Display Language**, **Power Saver**, **Wait Timeout**, **Job Timeout**, **Jam Recovery**, **Hex Print** and **Intellifilter**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Factory Defaults This submenu allows you to reset the printer to U.S. or Non-U.S. factory defaults.	U.S.	U.S. Non-U.S.	1. Press NEXT or PREVIOUS to toggle between U.S. and NON-U.S. 2. Press SELECT to choose and set the factory defaults.
Display Language This submenu allows you to change the language of the display messages.	English	English French (Francais) German (Deutsch) Italian (Italiano) Spanish (Espanol) Portuguese Dutch Danish Norweigan Swedish Greek Polish Russian Turkish Brazilian portuguese	1. Press NEXT or PREVIOUS to scroll through the available languages. 2. Press SELECT to choose and set the language.
Power Saver	15 (Minutes)	1 – 999	1. Press NEXT or PREVIOUS to increase or decrease the time. 2. Press SELECT to save this setting.

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Wait Timeout This submenu allows you to increase or decrease the length of time (in seconds) that the printer will remain in the waiting state – a job is being processed, no end-of-file has been detected and there is no more data to process. This setting applies to *both PCL and PostScript print jobs.*	00020	0 – 99999	1. Press NEXT or PREVIOUS to increase or decrease each digit of the five-digit number. 2. Press SELECT set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
Job Timeout This submenu allows you to increase or decrease the time limit (in seconds) for PostScript jobs. A 0 setting indicates no timeout. This setting applies *only to PostScript jobs.*	00000	0 – 99999	1. Press NEXT or PREVIOUS to increase or decrease each digit of the five-digit number. 2. Press SELECT set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
Jam Recovery This submenu allows you to turn jam recovery on or off.	On	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Hex Print This submenu allows you to print hexadecimal characters.	Off	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Intellifilter This submenu allows you to turn the Intellifilter feature on or off.	On	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.
Reset Belt Life			Press SELECT to action.
Reset Fuser Life			Press SELECT to action.
Reset Toner Life		Reset Toner K Life Reset Toner C Life Reset Toner M Life Reset Toner Y Life	Press SELECT to action.

4.13 Quality Menu

The Quality Menu provides access to the printer settings that are related to print quality. Use the following procedure to enter the Quality Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Quality Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Quality menu.
4. Press the **NEXT** button to move through the submenus: **Resolution** and **Toner Saver**. Press the **SELECT** button to enter a submenu.
5. Use the procedures in the following table to access and change the system settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Resolution This submenu allows you to set the resolution (dpi).	600 dpi	600 dpi 1200 x 600 dpi	1. Press NEXT or PREVIOUS to scroll through the available resolutions. 2. Press SELECT to choose and set the dpi.
Toner Saver	Off	On Off	1. Press NEXT or PREVIOUS to toggle between ON and OFF. 2. Press SELECT to save this setting.

4.14 Color Menu

The Color Menu contains the settings related to the quality of printed color. Use the following procedure to enter the Color Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Color Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Color menu.
4. Press the **NEXT** button to move through the submenus: **Rendering Intent**, **Color Matching** and **Alignment.**
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings:

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Rendering Intent This submenu allows you to choose from several color settings. Depending on the type of printing you do, this setting should be set to an appropriate value	Photographic	**Photographic**: This setting will print the most realistic photographic images. **Presentation:** This setting is best suited when printing Business Graphics, Presentations, etc. This setting places emphasis on bold, saturated colors. **Logo Art**: When absolute color fidelity is important, as when corporate logos and the like are being printed, this setting will yield the greatest color fidelity. Colors that not possible to accurately produce will be remapped to the closest possible color. **Proofing:** This setting is very similar to the Logo Art setting, but the colors will be shifted by the color of the media on which you are printing.	1. Press NEXT or PREVIOUS to scroll through the available color rendering settings. 2. Press SELECT to choose and save this setting.

Submenus	Default Setting	Available Settings	Procedure for Changing Setting
Color Matching This submenu allows you to enable automatic color correction when printing color documents in RGB format.	On	Off With this setting set to Off, RGB colors are internally converted to their CMYK equivalent and are then placed on the paper. It is possible that the colors that print will be different than what you see on your screen. On With this setting set to On, the RGB colors are processed by the printer's internal Color Management system before being placed on the page. The Color Rendering menu setting is used to determine the exact color translations performed. This setting will yield printed colors that are as true as possible to what you see on your screen.	1. Press NEXT or PREVIOUS to scroll through the available settings. 2. Press SELECT to choose and save this setting.
Alignment This submenu allows you to align the printed image using the default tray and optional duplex unit.	Alignment Page	Alignment Page: Tray K-H K-V Duplex K-H K-V	**Note:** see Chapter 2.11, “Adjusting Color Alignment” for more information.

4.15 Date/Time Menu (option)

Note: *This menu selection will only appear if the Real Time Clock Option has been installed. Please contact your dealer for more information on this feature.*

The Date/Time Menu provides access to the printer settings that are related to print quality. Use the following procedure to enter the Date/Time Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Date/Time Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Date/Time menu.
4. Press the **NEXT** button to move through the submenus: **Month**, **Day**, **Year**, **Hour**, **Minute**, **Second** and **Offset from GMT**. Press the **SELECT** button to enter a submenu.
5. Use the procedures in the following table to access and change the system settings:

Submenus	Available Settings	Procedure for Changing Setting
Month This submenu allows you to set the current month.	January – December	1. Press NEXT or PREVIOUS to scroll through the months. 2. Press SELECT to choose and set the month.
Day This submenu allows you to set the current day.	Monday – Sunday	1. Press NEXT or PREVIOUS to scroll through the days. 2. Press SELECT to choose and set the day.
Year This submenu allows you to set the current year.	2000 – 2099	1. Press NEXT or PREVIOUS to scroll through the years. 2. Press SELECT to choose and set the year.
Hour This submenu allows you to set the current hour.	1 – 12 am/pm	1. Press NEXT or PREVIOUS to scroll through the hours. 2. Press SELECT to choose and set the hour.
Minute This submenu allows you to set the current minute.	1 – 59	1. Press NEXT or PREVIOUS to scroll through the minutes. 2. Press SELECT to choose and set the minute.

Submenus	Available Settings	Procedure for Changing Setting
Second This submenu allows you to set the time in seconds.	1 – 59	1. Press NEXT or PREVIOUS to scroll through the seconds. 2. Press SELECT to choose and set the second.
Offset from GMT This submenu allows you to set time for a different time zone in hours, minutes and seconds.	-12 through + 12	1. Press NEXT or PREVIOUS to scroll through the submenus. 2. Press SELECT to choose and set the hours, minutes or seconds.

4.16 Functions Menu

The Functions Menu provides access to several printer functions that can supply you with information about the printer and its settings. Use the following procedure to enter the Functions Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Functions Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Functions menu.
4. Press the **NEXT** button to move through the available functions: **Reset Printer**, **Print Summary**, **Print Demo** and **Print Fonts**.
5. Use the procedures in the following table to execute the functions:

Functions	Procedure for Executing Function
Reset Printer This function resets the printer.	Press SELECT to reset the printer.
Print Summary This function prints a list of all printer settings:	Press SELECT to print a summary of the printer settings.
Print Demo This function allows you to print a demo page.	Press SELECT to print a Demo Page.
Print Fonts This function allows you to print Postscript or PCL font lists.	1. Press SELECT then NEXT or PREVIOUS to toggle between POSTSCRIPT and PCL. 2. Press SELECT to select and print the specific fonts list.

4.17 FLASH Menu

Note: *This menu selection will only appear if an optional hard disk drive or Flash DIMM has been installed. See "Installing DRAM Memory DIMMS" for more details.*

The FLASH Menu provides access to the printer settings that are related to the FLASH DIMM. This menu appears when a User Flash is installed in the printer. Use the following procedure to enter the FLASH Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**FLASH Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the FLASH menu.
4. Press the **NEXT** button to move through the submenus: **Print**, **Delete**, **Format FLASH** and **FLASH summary**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings:

Submenus	Procedure for Changing Setting
Print This selection will read the selected file from FLASH and print it as if it were being received from one of the input ports.	1. Press NEXT or PREVIOUS to scroll through the files. 2. Press SELECT to choose and print the file.
Delete This selection will delete the selected disk file or directory from the FLASH DIMM. To delete an entire directory, you must first delete all the files within that directory.	1. Press NEXT or PREVIOUS to scroll through the files. 2. Press SELECT to choose and delete the file.
Format USR Flash This selection will reformat the FLASH DIMM.	1. Press SELECT to reformat the FLASH DIMM.
Flash Summary This selection will print a page containing information about the installed FLASH DIMM including a list of all the current existing files and directories.	1. Press SELECT to print the FLASH summary.

WARNING! *All files on the FLASH DIMM will be deleted if the Format FLASH function is selected.*

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4.18 DISK Menu

Note: *This menu selection will only appear if an optional hard disk drive or compact flash has been installed. See "User Flash, Compact Flash and Hard Disk Options" for more details.*

The Disk Menu provides access to the printer settings that are related to the optional Hard Disk. Use the following procedure to enter the Disk Menu:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Disk Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the DISK menu.
4. Press the **NEXT** button to move through the submenus: **Print**, **Delete**, **Format Disk** and **Disk Summary**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings:

Submenus	Procedure for Changing Setting
Print This selection will read the selected file from Disk and print it as if it were being received from one of the input ports.	1. Press NEXT or PREVIOUS to scroll through the files. 2. Press SELECT to choose and print the file.
Delete This selection will delete the selected disk file or directory from the hard disk. To delete an entire directory, you must first delete all the files within that directory.	1. Press NEXT or PREVIOUS to scroll through the files. 2. Press SELECT to choose and delete the file.
Format Disk This selection will reformat the hard disk.	1. Press SELECT to reformat the hard disk.
Disk Summary This selection will print a page containing information about the installed hard disk, including a list of all the current existing files and directories.	1. Press SELECT to print the Disk summary.

WARNING! *All files on the Disk will be deleted if the Format Disk function is selected.*

Chapter 5
Extended Features

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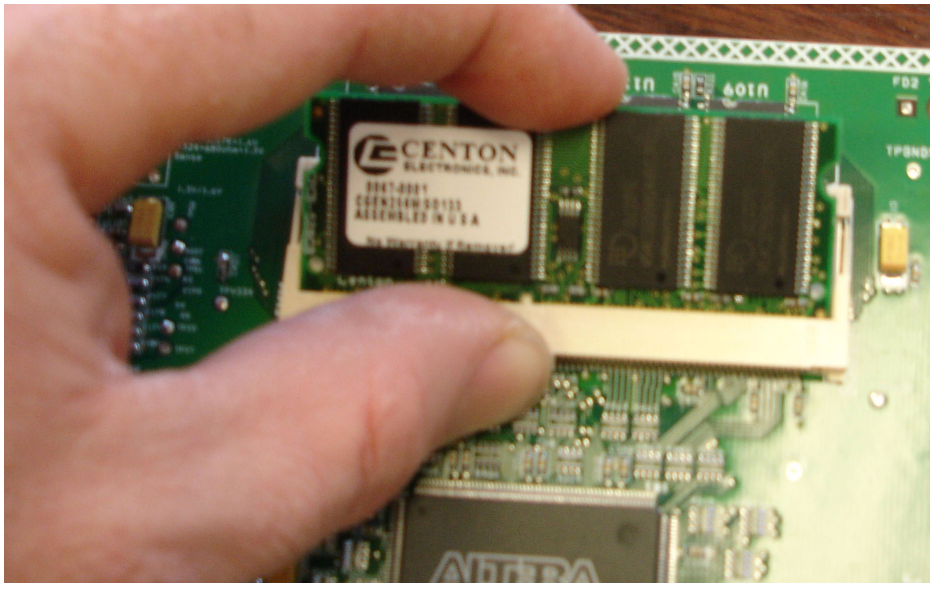
5.1 About this Chapter

This chapter describes the procedures for installation of DRAM Memory DIMMs, Flash, Compact Flash and the Hard Disk Options and describes how to use the extended features associated with these options. Instructions to access the Printer Web Site and Printer Drivers are described in this chapter.

5.2 Installing DRAM Memory DIMMS

1. Ensure that the printer power switch is set to the OFF [**O**] position.
2. Disconnect the power cord from the wall outlet.
3. Remove 2 screws from the top and bottom edge of the controller bracket and gently pull bracket towards you to remove from printer.

4. Carefully insert a DRAM DIMM which is compatible with your printer into DRAM DIMM slot as shown below. When properly seated, gently push down on the DIMM until the side braces close onto the ends of the DIMM.

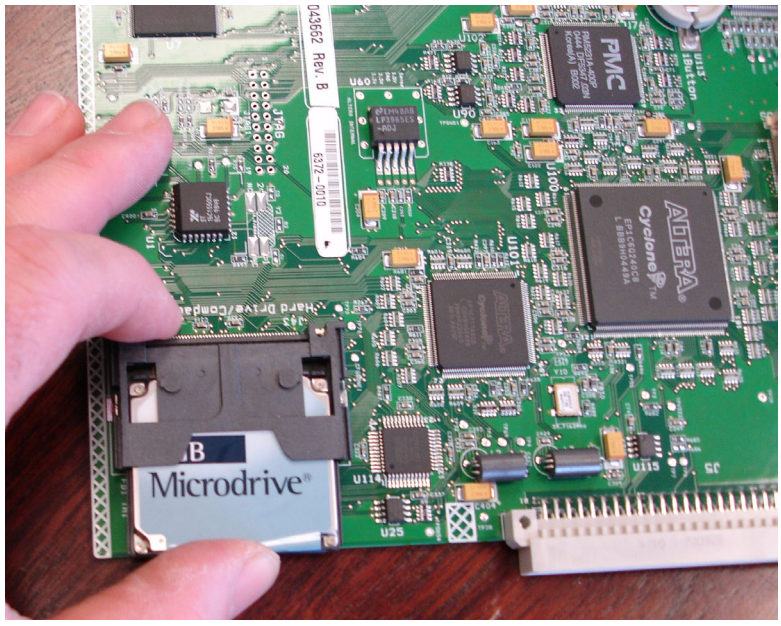


5. Reinstall the controller, being sure to insert into the black plastic guide rails and gentley push the controller into position until flush with the printer chasis. Reinsert screws removed in Step 3 procedure.
6. Connect the power cord to the wall outlet.Turn the printer power switch to the ON [**I**] position.

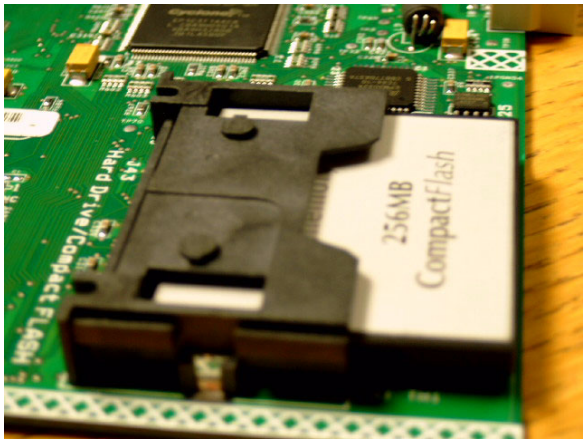
5.3 User Flash, Compact Flash and Hard Disk Options

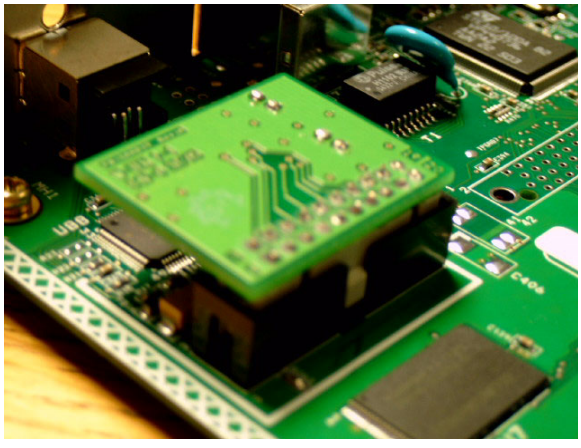
1. Carefully review the safety precautions in the front of this guide before starting this installation procedure.
2. Ensure that the printer power switch is set to the OFF [**O**] position. Disconnect the power cord from the wall outlet.
3. Remove 2 screws from the top and bottom edge of the controller bracket and gently pull bracket towards you to remove from printer.

4. Hard Disk/Compact Flash Installation: Locate the area of the controller identified as “Hard Disk/Compact Flash”. Align the hard disk/compact flash within the designated connector opening and gently push in to ensure the hard disk is connected securely within the connector on the controller assembly.



User Flash Installation: Align the key on the connector with the socket as shown below.





5. Reinstall the controller, being sure to insert into the black plastic guide rails and gentley push the controller into position until flush with the printer chasis. Reinsert screws removed in Step 3 procedure.
6. Connect the power cord to the wall outlet. Turn the printer power switch to the ON [**I**] position.

The installation of your option in your printer is now complete.

5.3.1 Using the Hard Disk Option and User Flash DIMM Module

This section discusses the available control panel menus when the Hard Disk or User Flash option is installed. Power-on files and the storage of files on the Hard Disk and User Flash option are also discussed.

Operator Panel MENU Structure

When the Hard Disk/Compact Flash or User Flash option is installed, the printer control panel menu structure is enhanced as shown in the following table. The shaded areas denote additional features and settings relevant to the Hard Disk or Flash option.

Menu				
	Job Library			
	Job Accounting			
	Paper Menu			
	Interface Menu			
	PS Menu			
	PCL Menu			
	System Menu			
		Display Language		
		Alarm Control		
		Power Saver		
		Wait Timeout		
		Job Timeout		
		Jam Recovery		
		Hex Print		
		Intellifilter		
		Power-On Files		
			Playback	FILE01.POR
				FILE02.POR
				FILE03.POR
				. . .
				. . .
			Delete	FILE01.POR
				FILE02.POR
				FILE03.POR
				. . .
				. . .
	Quality Menu			
	Functions			
	Disk Menu			
		Print		
		Delete		
		Format Disk		
		Disk Summary		
	Flash Menu			
		Print		
		Delete		
		Format Disk		
		Disk Summary		

Note: *1. The Disk Menu will only appear when the respective Hard Disk option is installed.*
2. Power-On Files menu will only appear if power-on files exist.

Using the Disk Menu

Manipulation of files stored on the hard disk option can be accomplished using the Disk Menu.

Disk Menu	
	Print
	Delete
	Format Disk
	Disk Summary

Print

This selection will read the selected file from the Hard Disk and print it as if it were being received from one of the input ports.

Delete

This selection will delete the selected disk file or directory from the hard drive. To delete an entire directory, you must first delete all the files within that directory.

Format Disk

This selection will reformat the hard drive. All files on the hard drive will be deleted if this function is selected.

Disk Summary

This selection will print a page containing information about the hard disk drive including a list of all the current existing files and directories.

Using the Flash Menu

Manipulation of files stored in the FLASH SIMM can be accomplished using the Flash Menu.

Flash Menu	
	Print
	Delete
	Format USR Flash
	Flash Summary

Print

This selection will read the selected file from the FLASH SIMM and print it as if it were being received from one of the input ports.

Delete

This selection will delete the selected file or directory from the FLASH SIMM. To delete an entire directory, you must first delete all the files within that directory.

Format Flash

This selection will reformat the FLASH SIMM. All files on the FLASH SIMM will be deleted if this function is selected.

Flash Summary

This selection will print a page containing information about the FLASH SIMM including a list of all the current existing files and directories.

Using the FLASH SIMM or Hard Disk Option as a PostScript Device

In order to allow PostScript programs to access the FLASH SIMM and/or hard disk options, a full implementation of a PostScript storage device is provided. This section discusses an overview of the PostScript operators and parameter sets that are included in the support.

For detailed information on using the operators/parameter sets, please refer to the following publications:

- PostScript Language Reference Manual
- Adobe PostScript 3 Version 3010 Product Supplement

Device Names and Priority

The device names assigned to the FLASH SIMM and hard disk options are as follows:

%flash%	device name for the FLASH SIMM
%disk0%	device name for the hard disk

If both devices are installed, both devices can be referenced uniquely by name. If no device name is specified in the PostScript operation, the *SearchOrder* parameter in the device parameter set establishes the priority for file operations. When both devices are installed, the *SearchOrder* value for the hard disk is set to 1, while the *SearchOrder* value for the FLASH SIMM is set to 2. This gives priority to the hard disk.

PostScript Operators

All of the standard file-object related operators (file, read, write, etc.) are supported. In addition, following is a list of device-related PostScript Compatibility operators that are supported for use with the FLASH SIMM(*%flash%*) or hard disk (*%disk0%*) options:

- devdismount
- devforall
- devformat
- devmount
- devstatus
- diskonline
- diskstatus

- initializedisk
- dosysstart
- setdosysstart

Device Parameter Sets

When installed, a device parameter set will be supported for either or both FLASH SIMM and hard disk options. The parameter sets can be referenced using the device names *%flash%* or *%disk0%*. Each parameter set will include the following parameters:

- LogicalSize
- Writeable
- BlockSize
- Searchable
- SearchOrder
- Type
- Mounted
- HasNames
- PhysicalSize
- InitializeAction
- Free
- Removable

Warmstart.ps and Sys/Start Files

When either or both the FLASH SIMM or hard disk options are installed, there are two features which provide support for automatic execution of a PostScript program during power-on initialization.

The first feature is the *warmstart.ps* file. Each time the printer is powered on, either or both optional storage devices will be checked for a file named *warmstart.ps*. If this file is found, it will be read and parsed by the PostScript interpreter. It is up to the PostScript programmer to create the content of this file and get the file onto the storage device using the PostScript device and file operators.

The second feature is the *Sys/Start* file. If either or both of the optional storage devices are installed, an additional parameter will be supported in the System Parameter set. This parameter is an integer parameter called *StartupMode* and is set to 1 by default.

Note: *This parameter can be read or written using the dosysstart and setdosysstart operators.*

Each time the printer is powered on, if the StartupMode parameter is set to 1, either or both the optional storage devices will be searched for a file called *Sys/Start*, a file named *Start* in a path called *Sys*. If this file is found, it will be read and parsed by the PostScript interpreter. Again, it is up to the PostScript programmer to create the content of this file and get the file onto the storage device using the PostScript device and file operators.

5.3.2 Using the Power-On Files Feature

Power-on Files Defined

If a FLASH DIMM or hard disk drive is installed in your printer, your printer has the capability of storing additional power-on files which can be read and interpreted at power-on. Power-on files are processed at power-on initialization only and not at the start of every print.

Power-on files can contain either PCL or PostScript language content. Examples of power-on files include soft fonts, and macro/overlay definitions. The FLASH DIMM can store approximately 16 MB of file storage, the hard disk drive storage depends on the size of the drive that is installed in your printer.

Optional operator panel menu selections become available when either of these options are installed and power-on files are detected.

5.4 Collating, Saved Jobs and Job Accounting

The features discussed in this section are designed to work with the Hard Disk or Compact Flash Option. However, if no Hard Disk Option is installed, but a User Flash Option is installed, these features will utilize the User Flash Option. If both the Hard Disk Option and a User Flash Option are installed, these features will default to the Hard Disk Option.

Collating and Job Library are very limited with Flash – the Hard Disk is required for large files.

There are two features available using the Hard Disk or User Flash Option: Collating and Saved Jobs. The drivers that support these new features are as follows:

- PCL - Windows XP and 2000
- PostScript - Windows 2000 and Windows XP (using non Adobe driver)

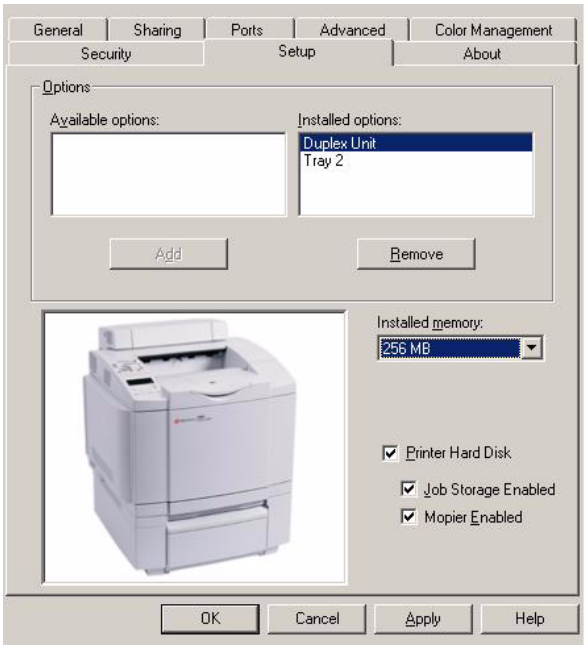
Collating Feature

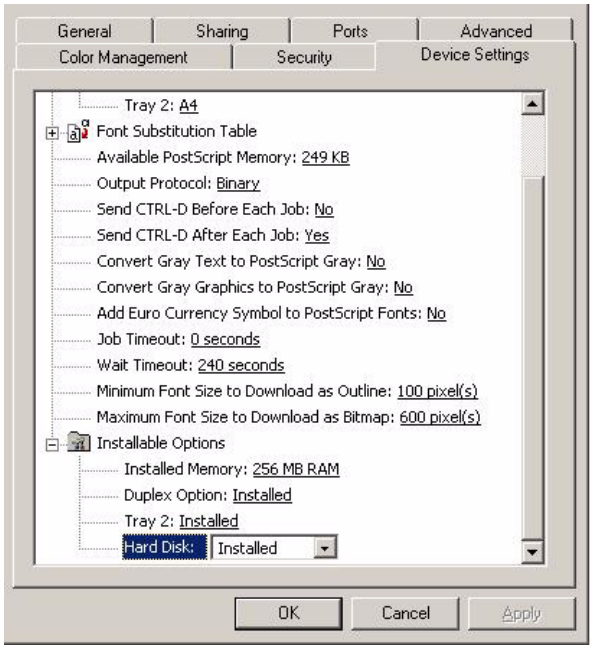
When this feature is enabled, multiple copies of the entire document (all pages e.g. 1-3, 1-3, 1-3) will be printed in sequential order rather than multiple copies of each individual page (111, 222, 333).

You access the collating feature through the drivers that support this feature. But, before these features can be used, a Disk must be set as installed in driver Device Settings. To access the Collating feature on your desktop, go to the Start menu, left click on Settings, left click on Printers, and then click on your printer driver icon, right click and follow the menu to the Properties menu.

Use the following procedure to enable collating:

1. On your desktop, go to the Start menu, left click on **Settings**, left click on **Printers**, and then click on your printer driver icon, right click and follow the menu to the Properties menu.





2. Click on the **Device Settings** button. Scroll down and make sure a Hard Disk option is installed. In the case of the PCL driver also enable the **Mopier** button as shown. Then click the **OK** button.
3. Press the **General** tab in Printing Properties and click the **Printing Preferences** button.
4. Click on the **Advanced** button for the Poscript driver and the **Paper** tab for the PCL driver.
5. Click on the **Copy Count** button to enter the number of copies and make sure the **Collate** button is checked.
6. Click to **OK** button and your printer driver is set to collate the number of copies specified.

Saved Jobs Feature

You can create saved jobs using the drivers that support this feature. The drivers that support this feature are as follows:

- PCL - Windows XP and 2000
- PostScript - Windows 2000 and Windows XP (using non Adobe driver)

To enable the saved job features you must enable the Hard disk option in the Postscript driver and PCL driver. In addition you should enable Job storage if using the PCL driver. See previous section.

There are three job types available, Normal, Saved, and Private. For the Postscript driver, these are called Off Stored and Private in the PCL driver. The descriptions of the job types are as follows:

Normal

A normal print job. No print job data is saved.

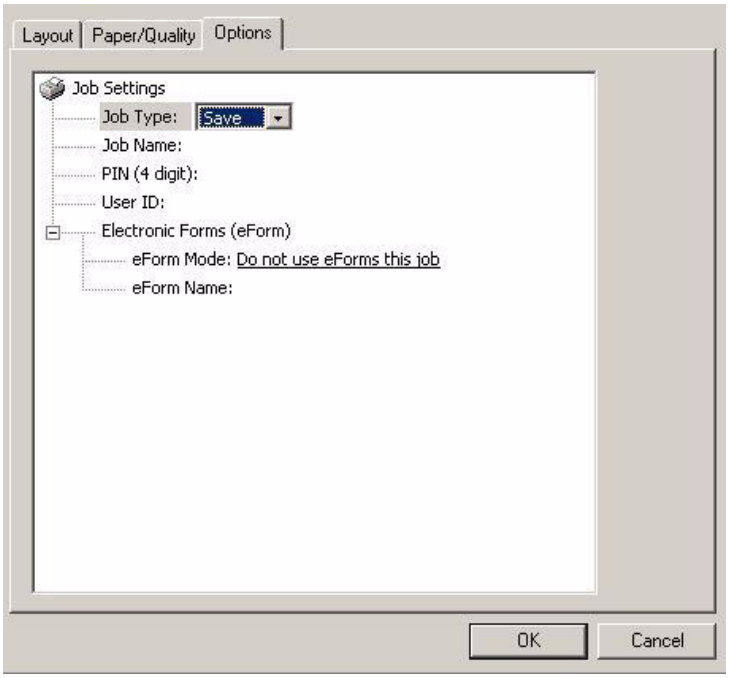
Saved

The print job data is saved on the Hard Disk or User Flash Option. The job will be saved in the "Job Library" folder. A sub-folder in the Job Library folder will be created, if necessary, for the user, as specified by the user name. The print job will be stored in a file in this folder with a name created by the user in the job name field of the printer driver.

Private

The print job data is saved on the Hard Disk or User Flash Option. The job will be saved in the "Job Library" folder. A sub-folder will be created, or the by the user as specified by user name. The print job will be stored in a file in this folder, with a name specified by user in the job name field of the printer driver. "Private" print job files are secured by having an associated PIN which is entered in the PIN field of the driver by the user. Any access to this file will require the PIN to be entered.

To save a job using the Postcript driver: Select **Print** from your package. Select the PS driver, select **Properties** and then the **Options** tab. Select your required entries including file and user name and user ID number (if a private job is selected). Note E-forms require additional software so leave this option as "Do not use e-forms this job".



If using the PCL driver select **Print**, **Preferences**, **Options**, **Job Storage Settings**. If the box is greyed out check that you have enabled Hard Drive and Job storage enabled in set up printer properties.

Working with Saved Jobs

There are two ways to work with Saved Jobs. One is through the front panel menus, the other is through the printer web pages.

Front Panel Access

The Job Library Menu provides access to the printer settings that are related to the optional Hard Disk. Use the following procedure to enter the Job Library Menu to Print or Delete jobs that are Saved in the Job Library, including jobs that have a PIN number:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Job Library Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Job Library Menu.
4. Press the **NEXT** button to move through the submenus: **Print**, **Delete**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings.

Menu	Submenus	Procedure for Changing Setting
Job Library (Saved Job)	Print (To print a saved job)	1. Press NEXT or PREVIOUS to scroll through Print or Delete options. 2. Press SELECT to choose Print.
	Print User Folder 1	1. Press NEXT or PREVIOUS to scroll through the User Folder Names. 2. Press SELECT to choose the desired User Folder.
	Print Job1	1. Press NEXT or PREVIOUS to scroll through the Print Job Names. 2. Press SELECT to choose the desired Print Job.
	Job Name Copies - Select 1-99	1. Press NEXT or PREVIOUS to increase or decrease each digit of the two-digit number. 2. Press SELECT set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
	Job Name Copies	1. Press SELECT to print the job.
	Printing Playback	1. The printer will display PRINTING on Line 1 and PLAYBACK on Line 2 of the display while printing the job.

Menu	Submenus	Procedure for Changing Setting
Job Library (Saved Job with PIN)	Print (To print a saved job with a PIN)	1. Press NEXT or PREVIOUS to scroll through Print or Delete options. 2. Press SELECT to choose Print.
	Print User Folder 1	1. Press NEXT or PREVIOUS to scroll through the User Folder Names. 2. Press SELECT to choose the desired User Folder.
	Print Job1	1. Press NEXT or PREVIOUS to scroll through the Print Job Names. 2. Press SELECT to choose the desired Print Job.
	Job Name PIN	1. Press NEXT or PREVIOUS to increase or decrease each digit of the four-digit number. 2. Press SELECT to set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
	Job Name INCORRECT PIN	1. If an incorrect PIN is entered, press PREVIOUS to re-enter the correct PIN.
	Job Name Copies - Select 1-99	1. Press NEXT or PREVIOUS to increase or decrease each digit of the two-digit number. 2. Press SELECT to set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
	Job Name Copies	1. Press SELECT to print the job.
	Printing Playback	1. The printer will display PRINTING on Line 1 and PLAYBACK on Line 2 of the display while printing the job.
Job Library DELETE	Delete (To delete a saved job)	1. Press NEXT or PREVIOUS to scroll through Print or Delete options. 2. Press SELECT to choose Delete.
	Delete User Folder 1	1. Press NEXT or PREVIOUS to scroll through the User Folder Names. 2. Press SELECT to choose the desired User Folder.
	Delete Job1	1. Press NEXT or PREVIOUS to scroll through the Print Job Names. 2. Press SELECT to choose the desired Print Job to Delete.

Menu	Submenus	Procedure for Changing Setting
Job Library (Delete Saved Job with PIN)	Delete (To delete a saved job with a PIN)	1. Press NEXT or PREVIOUS to scroll through Print or Delete options. 2. Press SELECT to choose Delete.
	Delete User Folder 1	1. Press NEXT or PREVIOUS to scroll through the User Folder Names. 2. Press SELECT to choose the desired User Folder.
	Delete Job1	1. Press NEXT or PREVIOUS to scroll through the Print Job Names. 2. Press SELECT to choose the desired Print Job to Delete.
	Job Name PIN	1. Press NEXT or PREVIOUS to increase or decrease each digit of the four-digit number. 2. Press SELECT to set one digit and move to the next digit. 3. Press SELECT after changing the last digit to save this setting.
	Job Name INCORRECT PIN	1. If an incorrect PIN is entered, press PREVIOUS to re-enter the correct PIN.
	Job Name	1. Press SELECT to Delete the job.

5.4.1 Job Accounting Feature

The printer supports a job accounting feature which will store certain information about each print job received by the printer. There are two ways to work with this feature. One is through the front panel menu.

Note: *Please see "Accessing the Printer Web Page" on page 5-25 for more information on the Job Accounting Feature.*

Front Panel Access

The Job Accounting Menu provides access to functions and settings related to this feature. Use the following procedure to enter the Job Accounting Menu to change the settings or access the functions:

1. Press the **MENU** button on the control panel.
2. Press the **NEXT** button until the text "**Job Accounting Menu**" is shown on the second line of the display.
3. Press the **SELECT** button to enter the Job Accounting Menu.
4. Press the **NEXT** button to move through the submenus: **Enabled**, **Print Info**, **Reset Info**.
5. Press the **SELECT** button to enter a submenu.
6. Use the procedures in the following table to access and change the system settings.

SubMenu	Settings	Procedure for Changing Setting
ENABLED	Yes or No	1. Press NEXT or PREVIOUS to scroll through Yes or No options. 2. Press SELECT to choose Yes to turn on this function.
PRINT INFO		1. Press SELECT to begin printing the Job Accounting Summary Report.
RESET INFO		1. Press SELECT to reset the Job Accounting Information. This will delete all stored information related to jobs received by the printer.

When you print a Job Accounting Summary the following information will print on your report:

Job Name	User Name	Port	Protocol	Pages (sides)	Pages (sheets)	Date/Time	Duration
job2	jerry	parallel		4	4	March 30 2004 01:11:10 PM	00:00:08
job1	jerry	network1	LPD	4	4	March 30 2004 01:12:10 PM	00:00:04

Note: *Only products that have real time clock support will provide the Date/Time information.*

5.5 Using the Custom Paper Size Feature

Use the front panel to select the correct custom size paper for Tray 1. Within the Paper menu, Media Size/Type , Tray 1, you first need to turn auto sense to off, then set the width and height of the paper to be used. Then select use Custom paper size to on.

Then you should select the custom size paper within the driver. An example below is shown using the Postscript driver.

5.5.1 Operator Panel Access

The Paper Menu provides access to the Custom Paper Size settings for tray 1. The allowable range for setting a custom paper size is:

Paper Width	simplex 100 – 215.9 mm (3.9 – 8.5 inches) duplex 176 – 215.9 mm (176 – 8.5 inches)
Paper Length	simplex 210 – 297 mm (8.3 – 11.7 inches) duplex 250 – 297 mm (9.8 – 11.7 inches)

Use the following procedure to enter the Paper Menu to set a Custom Paper Size:

1. Set **Auto Sense** in the paper menu for tray 1 to **Off**.
2. Press the **MENU** button on the control panel.
3. Press the **NEXT** button until the text "**Paper Menu**" is shown on the second line of the display.
4. Press the **SELECT** button to enter the **Paper Menu**.
5. Press the **NEXT** button until the text "**Media Size/Type**" is shown on the second line of the display and press the **SELECT** button**.**
6. Press the **NEXT** button until the text "**Tray 1**" is shown on the second line of the display.
7. Press the **SELECT** button.
8. Press the **NEXT** button until the text "**Custom Size**" is shown on the second line of the display.
9. Press the **SELECT** button to enter the "**Custom Size**" menu. "**Width**" is shown on the second line of the display.
10. Press **NEXT** or **PREVIOUS** to increase or decrease each digit of the three-digit number to set the width of your paper. When the width of paper is correct, press the **SELECT** button.
11. Next "**Length**" is shown on the second line of the display.

12. Press **NEXT** or **PREVIOUS** to increase or decrease each digit of the three-digit number to set the length of your paper. When the length of paper is correct, press the **SELECT** button. Set Custom paper to on also in the paper menu for tray 1.
13. Press **RETURN** until you exit out of all the submenus and return to **READY**.

5.5.2 Printer Driver Access

To access the Custom Paper Size Feature through your printer driver, use the following procedure:

1. On your desktop, go to the Start menu, left click on Settings, left click on Printers, and then click on your printer driver icon, right click and follow the menu to the Properties menu.
2. You are now in the **Printing Properties** menu, click on the **Printing Preference** button.
3. Click on the **Advanced** button.
4. Click on the **Paper Size** button.
5. Scroll down to **Custom Page Size** and click on **PS Custom Page Size**.
6. Then enter the width and height of your custom paper size.
7. Click the **OK** button until you exit out of the driver menu. You are now ready to print your custom sized document.

5.6 Custom Page size and Microsoft Word, Word 2000, and Word 2003

When you specify a PostScript custom page size in the Paper Size box in the advanced printer properties for a supported printer, the custom size setting appears to be ignored if you have configured Microsoft Word to use the PostScript Custom Page Size setting. Word defaults to the default size of 8.5 by 11 inches. Word is limited to a maximum length of 22 inches.

5.6.1 Resolution

If you want to use PostScript custom page sizes that are supported by a printer, the only way to make them work correctly in Word is to add custom forms to Windows and then to choose those form names in Word. By using this method, the PostScript Page Size setting in Word is ignored, and the newly added forms are used instead.

Create a custom form for printing to a non-standard paper size in Microsoft Windows NT 4.0, Windows 2000, and Windows XP.

To create a custom form, follow these steps:

1. Navigate to **CONTROL PANEL**, double click **PRINTERS**.
2. On the **FILE** menu, click **SERVER PROPERTIES**.
3. On the **FORMS** tab, select the **CREATE A NEW FORM** check box.

Enter the settings for the new form.

Note: *When you set up a custom form, the margins cannot go beyond the confines of the specifications for the installed printer driver. Printable regions must be adhered to with regard to margin limits for the printer and driver in use.*

4. Click **SAVE FORM** or **OK**

To use the new form as the default form, follow these steps:

WINDOWS NT

- In **CONTROL PANEL**, double-click **PRINTERS**.
- Right-click the printer you want to select, and then click **DOCUMENT DEFAULTS**.
- In the **PAPER SIZE** box, click the new form**.**
- Click **OK**.

WINDOWS 2000 and XP

- In **CONTROL PANEL,** double-click **PRINTERS**.
- Right-click the printer you want to select and then click **PROPERTIES**.
- On the **GENERAL** tab, click **PREFERENCES**.
- On the **PAPER QUALITY** tab, click **ADVANCED,** and then in the **PAPER SIZE** drop down menu, select the custom form size.
- Click **OK**.

To use the new form from a program, follow these steps:

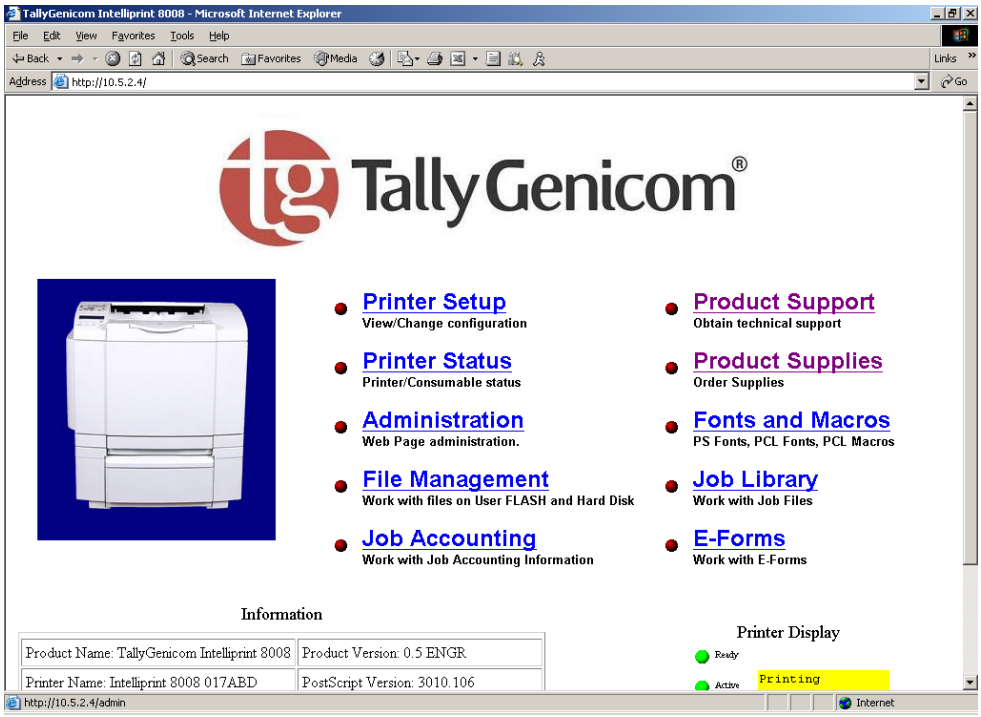
- In the program, click **PRINT.**
- In the **PRINT** dialog box, click **PROPERTIES**.
- In the **PAPER SIZE** box, click the new form.
- Click **OK**.
- Click **OK** to print.

Note: *New forms are stored on the computer where they are created. When you create a new form for use with a shared printer, create the form on the print server.*

Note: *On a Windows 2000 and XP computer, occasionally the newly created form will not appears in the drop down list under paper size. If you encounter this, you may need to select an existing form under server properties, modify the settings, check box to create a new form, change the form name and save the form. Once you save the form, it should appear in the paper size drop down box.*

5.7 Accessing the Printer Web Page

You can access the printer web page by going to the internet browser and typing the IP address of your network printer (http://IP ADDRESS). You can directly access the printer control panel on the web and it allows you to view and change the printer settings. Following is an example of the printer web page:



When you access the printer web page it will display your printer name and logo and provide access to the following menus:

Main Page of Printer Web Site	Submenu 1 of Printer Web Site	Submenu 2 of Printer Web Site
Printer Setup You can view and change printer configuration. With access to the following menus:	*Paper Menu* Provides access to the printer settings for various paper-handling functions:	Copies Duplex Duplex Bind Default Source Media Size/Type Tray Linking Blank Pages Auto Resize Separator Page Custom Size Unit
	Interface Menu Provides access to the printer interface settings:	Port Parallel Network 1 USB Parallel Setup Interpreter Format Mode Delay Out Close Network 1Setup Interpreter Format Network Address IP Address Subnet Mask Default Gateway LPD Banner DHCP Delay Out Close Host Name mDNS Local Link mDNS Host Name mDNS Svc Name Multi-Session AppleTalk Current Zone Preferred Zone Binary PS Factory Defaults Connection Speed USB Setup Interpreter Format Delay Out Close Binary PS
	PS Menu Provides access to the PostScript settings:	Print PS Errors

Main Page of Printer Web Site	Submenu 1 of Printer Web Site	Submenu 2 of Printer Web Site
	PCL Menu Provides access to the PCL settings:	Orientation Font Source Font Number Pitch Point Size Symbol Set Macro Filter Lines Per Page CR Mode LF Mode FF Mode Print Area Parameter Values Paper Source Paper Size
	System Menu Provides access to the system settings:	Display Language Power Saver Wait Timeout Job Timeout Jam Recovery Hex Print Page Compression Intellifilter
	Quality Menu Provides access to the printer settings that are related to print quality:	Resolution Toner Saver
	Color Menu Provides access to the printer settings that are related to color print quality:	Rendering Intent Color Matching
Only appears if the Real Time Clock Option is installed.	Date/Time Menu Provides access to the following date and time settings on your printer:	Month Day Year Hour Minute Second Offset from GMT

Main Page of Printer Web Site	Submenu 1 of Printer Web Site	Submenu 2 of Printer Web Site
	Email Setup Provides access to the following settings which allow the administrator to set parameters for specific conditions and have an email alert sent to specific addresses.	Email Server Settings: SMTP Server IP Address Enable Authentication User Name: (for Authentication) Password: (for Authentication) Printer Email Address Reply-To-Address Email Address Settings: Example:jsmith@abc_co.com Email Alert Conditions: Re-send Interval Off Line Consumables Toner Low/Toner Out Paper Low/Paper Out Paper Jam Cover Open Stacker Error Mass Storage Error Recoverable Error Service Call Required Email Signature Settings
	SNMP Setup Defines IP Addresses for trap host that will be sent SNMP trap messages. The printer supports the following SNMP trap types: 1) Cold start trap 2) Printer MIB alert table traps.	Trap Destination 1: Trap Destination 2: Trap Destination 3: Trap Destination 4: Trap Destination 5:
Printer Status Displays printer option and consumables status. You can view the current settings for the Input options on your printer and the Output options installed.	Input	Displays paper trays and the paper size, type and capacity levels of all installed trays and options.
	Output	Displays output paper trays and capacity level.
	Consumable Information	Displays the toner cartridge and percentage used. Also displays the Toner Page Count.
	Other	Sheet Counter Image Counter
Administration Displays security and factory defaults. Allows you to set up support and supplies web links.	Factory Defaults	
	Console Security	
	Refresh Rate	
	Support Link	
	Supplies Link	
	Admin Name	
	Password	
	Confirm Password	

Main Page of Printer Web Site	Submenu 1 of Printer Web Site	Submenu 2 of Printer Web Site
File Management Allows you to access (print or delete) files stored on your Hard Disk or User Flash.		
Only appears if User Flash is installed.	User Flash Files	You can view contents of folder, retrieve files or delete print files.
	Format User Flash	Allows you to format your User Flash.
	Print User Flash Summary	Prints a summary page of the files stored in the User Flash.
Only appears if Hard Disk Option is Installed.	Hard Disk Files	You can view contents of folder, retrieve files or delete print files.
	Format Hard Disk	Allows you to format your Hard Disk.
	Print Hard Disk Summary	Prints a summary page of the files stored on the Hard Disk.
Job Accounting View, retrieve, or reset job accounting information.		
	Enable/Disable	Click Yes or No to Enable or Disable Job Accounting
	Retrieve Job Accounting File	Retrieve a job file and upload the file information to a CSV file.
	Display Job Accounting Info	Displays all job information such as job name, user name, port, protocol, pages, date/time and duration.
	Reset All Job Accounting Info	Deletes all stored Job Accounting information.
Product Support Direct link to obtain technical support	Takes you to the Product Support Website where you can obtain technical support.	
Product Supplies Direct link to order supplies	Takes you to the Product Supplies Website where you can order product supplies.	
Fonts and Macros Allows you to view the PostScript Fonts and PCL Fonts, stored internally on your printer. Also allows you to view Macros stored on your Hard Disk or User Flash Options.	PS Fonts PCL Fonts PCL Macros	

Main Page of Printer Web Site	Submenu 1 of Printer Web Site	Submenu 2 of Printer Web Site
Job Library Takes you to the job library where you can view all user folders and print jobs. Also allows access to print or delete all files stored in your job library on your Hard Disk or User Flash Option. Allows you to save private jobs with a PIN.	View contents of user folder. Retrieve files. Delete or print selected files.	
E-Forms Allows you to view all E-Forms stored. Also allows access to print or delete E-Forms.		

Chapter 6
Troubleshooting and Maintenance

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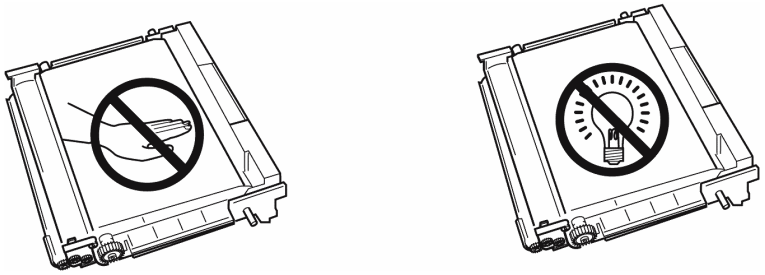
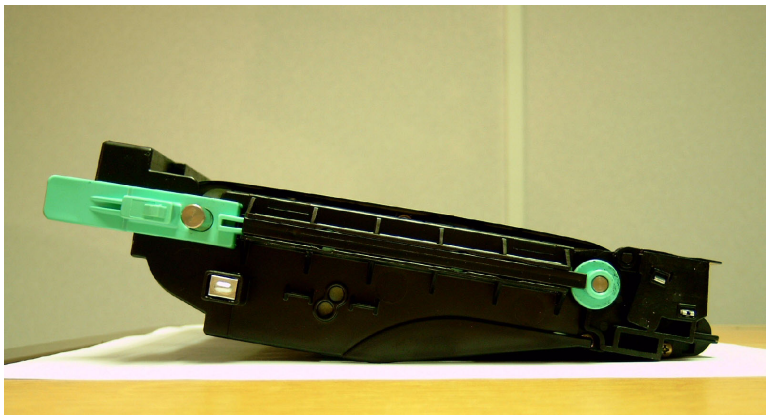
6.6 Actions on Abnormal Printer Operation 6-41

Caution! *Reference is made throughout this chapter not to touch the transfer belt. This is shown below.*





It is important also that when handling the belt cartridge that the green belt is not touched. When it is outside of the printer it should be put down onto a flat surface so that it will not be damaged and paper must be put over it to ensure light cannot fall onto its surface.

6.1 Control Panel LCD Messages

LCD Message (Line 1)	LCD Message (Line 2)	Cause of Error Message	Required Action
TONER Y MISSING - SEE NOTE 1	REPLACE TONER	Yellow toner cartridge is missing.	Install Yellow toner cartridge. If cartridge is already installed, make sure the toner cartridge is fully seated and tabs are pressed into the locked position.
TONER M MISSING - SEE NOTE 1	REPLACE TONER	Magenta toner cartridge is missing.	Install Magenta toner cartridge. If cartridge is already installed, make sure the toner cartridge is fully seated and tabs are pressed into the locked position.
TONER C MISSING - SEE NOTE 1	REPLACE TONER	Cyan toner cartridge is missing.	Install Cyan toner cartridge.If cartridge is already installed, make sure the toner cartridge is fully seated and tabs are pressed into the locked position.
TONER K MISSING - SEE NOTE 1	REPLACE TONER	Black toner cartridge is missing.	Install Black toner cartridge. If cartridge is already installed, make sure the toner cartridge is fully seated and tabs are pressed into the locked position.
	TONER Y LOW - SEE NOTE 3	The supply of YELLOW toner is running low. **Do not replace cartridge at this time.**	Make sure a replacement YELLOW toner is available. The toner will soon run out.
	TONER M LOW - SEE NOTE 3	The supply of MAGENTA toner is running low. **Do not replace cartridge at this time.**	Make sure a replacement MAGENTA toner is available. The toner will soon run out.
	TONER C LOW - SEE NOTE 3	The supply of CYAN toner is running low. **Do not replace cartridge at this time.**	Make sure a replacement CYAN toner is available. The toner will soon run out.

LCD Message (Line 1)	LCD Message (Line 2)	Cause of Error Message	Required Action
	TONER K LOW - SEE NOTE 3	The supply of BLACK toner is running low. **Do not replace cartridge at this time.**	Make sure a replacement BLACK toner is available. The toner will soon run out.
TONER Y EMPTY - SEE NOTE 1	REPLACE TONER	Yellow toner cartridge is empty.	Replace Yellow toner cartridge.
TONER M EMPTY - SEE NOTE 1	REPLACE TONER	Magenta toner cartridge is empty.	Replace Magenta toner cartridge.
TONER C EMPTY - SEE NOTE 1	REPLACE TONER	Cyan toner cartridge is empty.	Replace Cyan toner cartridge.
TONER K EMPTY - SEE NOTE 1	REPLACE TONER	Black toner cartridge is empty.	Replace Black toner cartridge.
BELT CG MISSING - SEE NOTE 1	REPLACE BELT CG	Belt Cartridge is missing.	Install Belt cartridge.
WASTE TONER OUT - SEE NOTE 1	REINSTALL WASTE	Waste Toner Cartridge is missing.	Install Waste Toner Cartridge.
FUSER MISSING - SEE NOTE 1	REPLACE FUSER	Fuser is missing.	Install Fuser.
	REPLACE FUSER - SEE NOTE 3	The Fuser is close to the end of its life.	Make sure a replacement Fuser is available. The Fuser will need replacement soon.
	REPLACE BELT CG - SEE NOTE 3	The Belt Cartridge needs to be replaced.	Install new Belt Cartridge.
WASTE TONER FULL - SEE NOTE 1	REPLACE WASTE	The Waste Toner needs to be replaced.	Install new Waste Toner.
	REPLACE FUSER - SEE NOTE 3	Fuser needs to be replaced.	Install new Fuser.
PAPER JAM - SEE NOTE 1	JAM-A TRAY REAR	Paper jam.	Remove paper tray, open the cover of the printer, and remove paper.
PAPER JAM - SEE NOTE 1	JAM-B REAR	Paper jam.	Open back cover of the printer and remove paper.
PAPER JAM - SEE NOTE 1	JAM-C REAR	Paper jam.	Open back cover of the printer and remove paper.
PAPER JAM - SEE NOTE 1	JAM-D DUPLEX	Paper jam.	Open the back cover of printer and the duplex cover to remove paper.

LCD Message (Line 1)	LCD Message (Line 2)	Cause of Error Message	Required Action
PAPER JAM - SEE NOTE 1	JAM-E DUPLEX	Paper jam.	Open the back cover of printer, the duplex cover, and the inner paper guide to remove paper.
SERVICE ERROR X	CALL SERVICE		Press the next key and note the number. Power the printer off, wait 20 seconds, power the printer back on. If the problem persists contact your service department
	REPL TRANS BELT		Service Call required
	REPL 120 K KIT		Service Call required
FRONT COVER OPEN - SEE NOTE 1	CLOSE COVER	Front cover is open.	Close front cover.
TOP COVER OPEN - SEE NOTE 1	CLOSE COVER	Top cover is open.	Close top cover.
REAR COVER OPEN - SEE NOTE 1	CLOSE COVER	Rear cover is open.	Close rear cover.
DUPLEX COVER OPEN - SEE NOTE 1	CLOSE COVER	Duplex cover is open.	Close duplex cover.
LOAD PAPER TRAY1 LOAD PAPER TRAY2 - SEE NOTE 1	LOAD PAPER ACCORDING TO REQUESTED SIZE AND MEDIA TYPE	There is an empty paper tray.	Put paper in empty paper tray.
TRAY 1 MISSING TRAY 2 MISSING - SEE NOTE 1	REPLACE TRAY	There is a paper tray missing.	Replace missing paper tray.
OUTPUT TRAY FULL - SEE NOTE 1	REMOVE PAPER	The output tray is full.	Remove the paper from the output tray.

Notes:

1: Printer operator must correct the problem for printer to continue to print.

2: Turn printer on and off, if problem persists, call service.

3: These errors are only displayed on line 2 of the control panel display. The printer will continue to print until the condition prevents further printing.

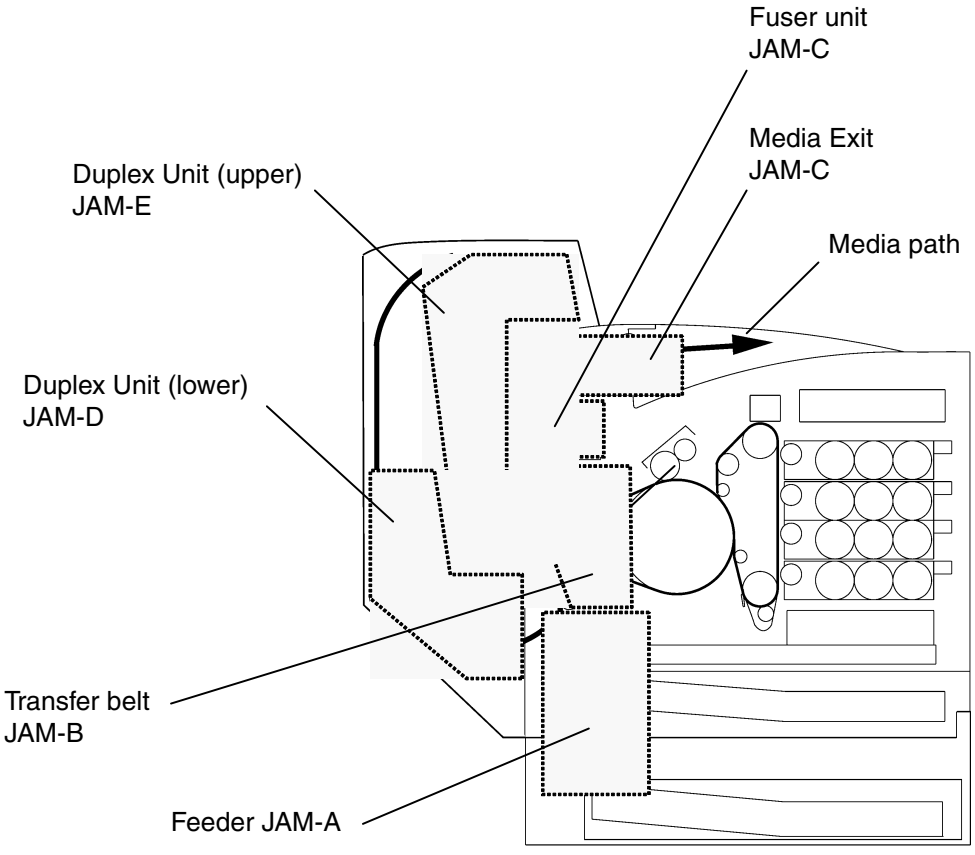
6.2 Media Jams

If a media jam occurs in the printer, the LCD message in the control panel displays the location of the jam. Take actions according to the message.

Notes on media removal

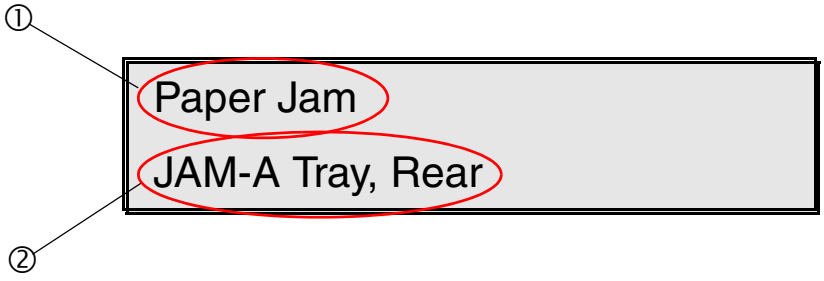
- You can resolve the media jam only by carefully drawing out the media in accordance with the correct procedure. Do not attempt to forcibly remove the media, which may cause failure of the printer.
- There may be two or more sheets of media that cause the jam. Ensure you remove all the sheets.
- Check that the removed media is not torn. If it is torn, fragments may still be left inside the printer. Remove all the media fragments as well.
- There may be cases when a few sheets of media remain inside the printer. In some circumstances, for example when a duplex unit has been fitted, it is possible to have several sheets in the printer at different locations at the same time. Please check that all media has been removed from the inside of the printer when clearing media jams.

6.2.1 Media Jam Locations



6.2.2 Determining Media Jam Locations by LCD Messages

When media jam has occurred, the LCD on the control panel shows a message. Determine the locations of the jam according to the message and diagram above.



① Type of Error

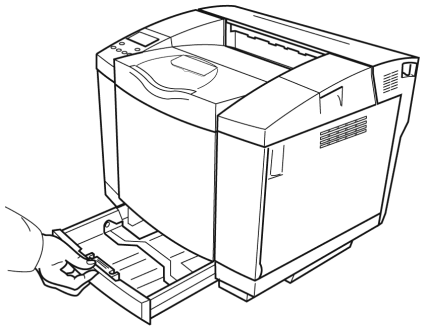
② Location of the jam, and parts (tray and/or cover) to be removed and/or opened for resolving the jam

- "JAM-A Tray, Rear": A media jam has occurred between the feeder and the transfer belt. To resolve the jam, remove the paper tray and open the back cover of the printer.
- "JAM-B Rear": A media jam has occurred near the transfer belt. To resolve the jam, open the back cover of the printer.
- "JAM-C Rear": A media jam has occurred between the transfer belt and the fuser unit. To resolve the jam, open the back cover of the printer.
- "JAM-D Duplex": A media jam has occurred in the lower part of Duplex Unit. To resolve the jam, open the back cover and the duplex cover.
- "JAM-E Duplex": A media jam has occurred in the upper part of Duplex Unit. To resolve the jam, open the back cover, the duplex cover and inner paper guide.

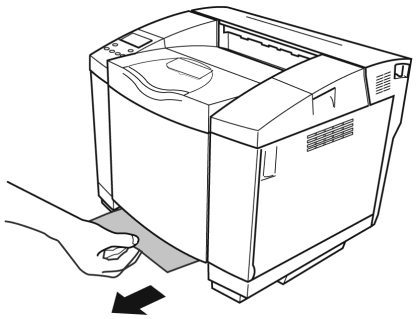
6.2.3 Removing Jams from the Printer

Removal Procedure for JAM-A

The procedure for resolving JAM-A instructs you, after removing the first jammed sheet, to search for more sheets. There may be cases when a few sheets of media remain inside the printer. In some circumstances, for example when a duplex unit has been fitted, it is possible to have several sheets in the printer at different locations at the same time.



1. Determine the target paper tray from the LCD message. Then, remove the paper tray.

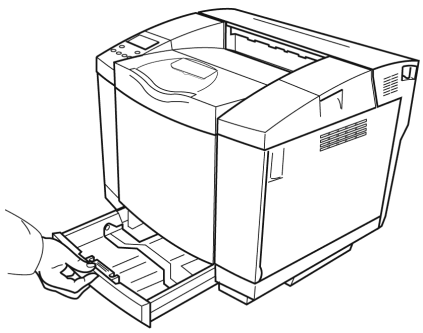


2. Carefully pull the jammed media toward yourself.

▶ Do not forcibly pull the media when it is not likely to come out.

▶ Look into the holder for the paper tray, and visually check out to see if any media or its fragments are left.

If you succeed in pulling out the media, go to step (3). If not, remove the media from the rear of the printer in accordance with removal procedure for JAM-B.



3. Make sure that the four corners of the media are set firmly in the paper tray. Then, put back the paper tray.

If JAM-A occurs often

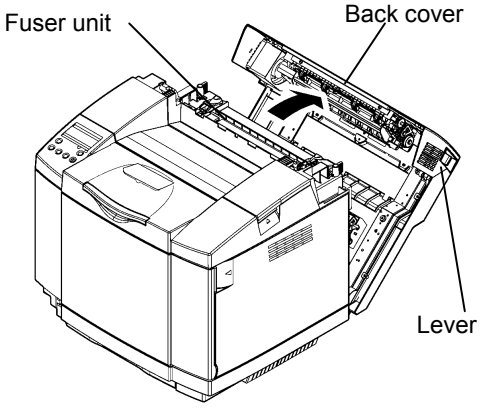
If JAM-A occurs often, check out the cause and take necessary actions according to the table below.

Item	Possible cause	Action	Page
Paper tray	Too many sheets of media are loaded.	Limit the amount of media in the tray so it is below the sheet limit indication inside the tray.	3-4
	The media guide position does not match the media size.	Adjust the media guide position to match the media size.	3-4
Inside of the printer	The print media is stuck inside the printer.	Remove the stuck media.	6-8
	The print media remains behind the back cover or inside the media feeder cover.	Remove the media remains.	6-10

Item	Possible cause	Action	Page
Media	The print media has become damp since it is left for a long period without being used.	Use media fresh from the package.	3-5
	Thin or thick media out of specifications has been used.	Use media that meets specifications.	3-4

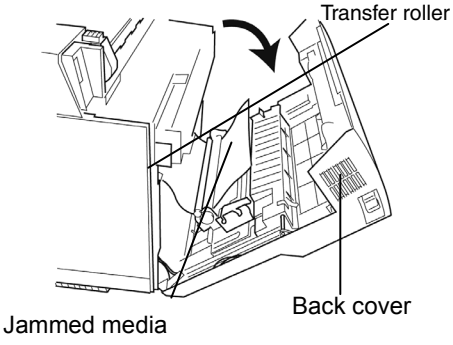
Removal Procedure for JAM-B

CAUTION! *During and immediately after printing, avoid touching the fuser unit and the area around it because they remain hot enough to cause burns. Turn off the printer and wait for 30 minutes or more. After the printer has fully cooled, remove the jammed media.*



1. Pull the lever on the Back cover to open it, hold it as it hinges back to be filly open.

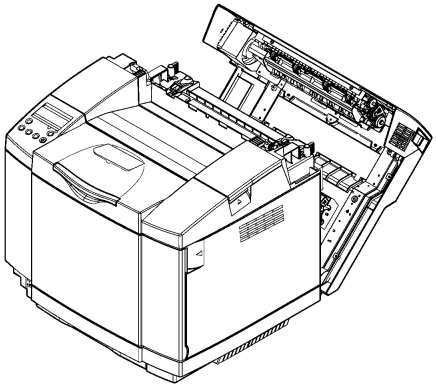
▶ **Keep the top cover fully open during this work.**



2. Remove the jammed media.

▶ **Toner is not fixed onto the paper. Pay attention not to soil your hands or clothes.**

▶ **Never touch the transfer roller. Otherwise, printing quality may be degraded.**



3. Support the back cover as you push it forward until it locks.

If JAM-B occurs often

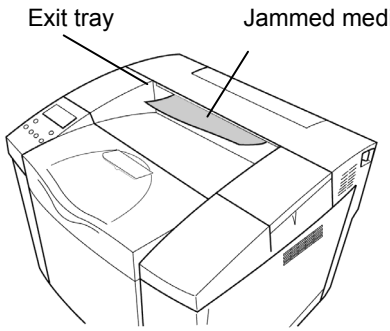
If JAM-B occurs often, check out the cause and take necessary actions according to the table below.

Item	Possible cause	Action	Page
Back cover	The back cover is not firmly shut.	Open the back cover and close it again.	–
Inside of the printer	There remains a jammed media.	Remove the remaining media.	6-10
Media	The print media has become damp since it is left for a long period without being used.	Use media fresh from the package.	3-5
	The edge of the media has been distorted.	Remove the edge-distorted media from the paper tray, or replace such media with new ones fresh from the package.	3-5
	The wire side of a two-sided paper is printed.	Load the paper with the felt side facing upward.	–
	Thin or thick media out of specifications has been used.	Use media that meets specifications.	3-4
Installation environment	The place around the printer is too hot.	Keep the printer away from heaters or office equipment generating heat.	2-6
	The printer is too cold.	Print after the printer becomes accustomed to the room temperature, particularly in winter.	2-6

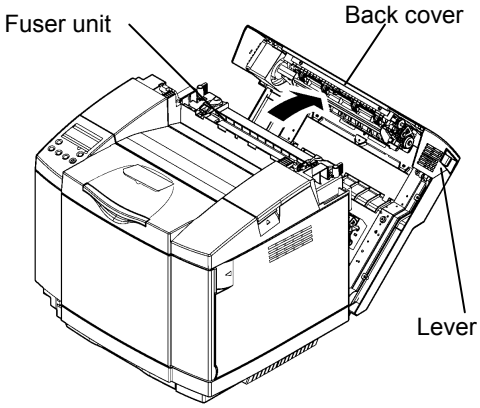
Removal Procedure for JAM-C

The procedure for resolving JAM-C instructs you, after removing the first jammed sheet, to search for more sheets. There may be cases when a few sheets of media remain inside the printer. In some circumstances, for example when a duplex unit has been fitted, it is possible to have several sheets in the printer at different locations at the same time.

CAUTION! *During and immediately after the printer's operation, avoid touching the fuser unit and the area around it because they remain hot enough to cause burns. Turn off the printer and wait for 30 minutes or more. After the printer has fully cooled, remove the jammed media.*

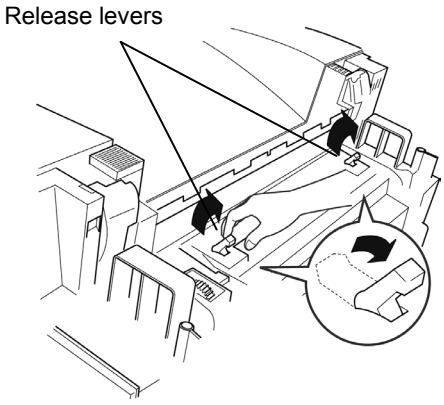


1. Carefully pull the jammed media toward yourself. If it comes easily carry on pulling to remove it completely. Otherwise, stop pulling as it may be torn.



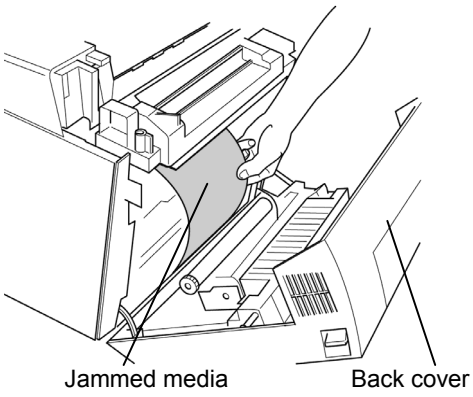
2. Pull the lever on the Back cover to unlock the back cover, and support it as the back cover hinges opens fully.

▶ **Keep the top cover fully open.**



3. Pull up the two green release levers.

Do not attempt to pull up the jammed sheet yet. The toner which has not been fixed may adhere to the fuser unit, causing print quality problems.

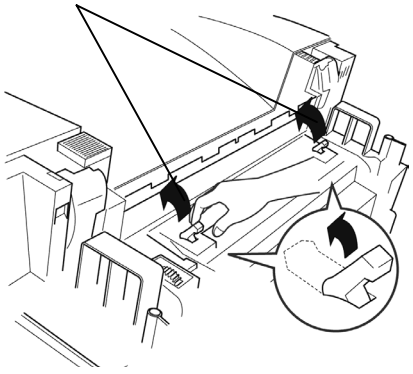


4. Remove the jammed media by pulling it down from the fuser unit.

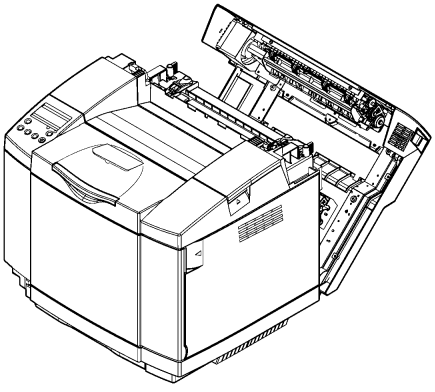
▶ **The toner on the media is not fixed. Pay attention not to soil your hands and clothes.**

▶ **Do not touch the transfer belt. Otherwise, the print quality may be degraded.**

Release levers



5. Return the two green release levers.



6. Close the back cover.

If JAM-C occurs often

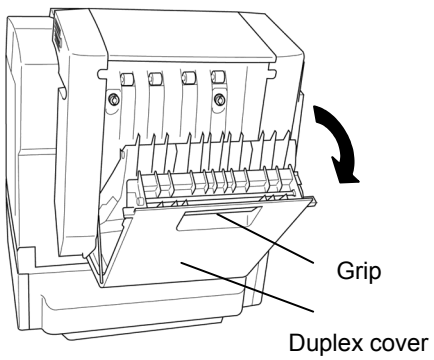
If JAM-C occurs often, check out the cause and take necessary actions according to the table below.

Item	Possible cause	Action	Page
Back cover	The back cover is not firmly shut.	Open the back cover and close it again.	–
Inside of the printer	There remains a jammed media.	Remove the remaining media.	6-13
Fuser unit	The media is stuck on the fuser roller.	Remove the media. Note a difference between the paper's grain (orientation of paper fiber) and the printer's feed direction may cause frequent jams. It is recommended to use portrait grain paper.	6-13, 3-5
Media	The print media has become damp since it is left for a long period without being used.	Use media fresh from the package.	3-5
	The edge of the media has been distorted.	Remove the edge-distorted media from the paper tray, or replace such media with new ones fresh from the package.	3-5
	The wire side of a two-sided paper is printed.	Load the paper with the felt side facing upward.	–
	Thin or thick media out of specifications has been used.	Use media that meets specifications.	3-4
Installation environment	The place around the printer is too hot.	Keep the printer away from heaters or office equipment generating heat.	2-6
	The printer is too cold.	Print after the printer becomes accustomed to the room temperature, particularly in winter.	2-6

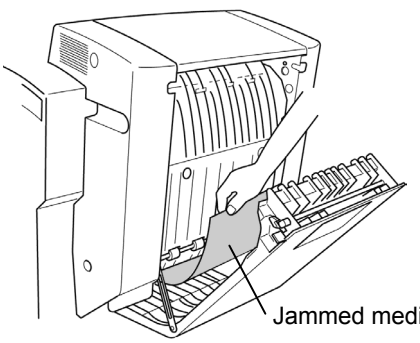
Removal Procedure for JAM-D

The procedure for resolving JAM-D instructs you, after removing the first jammed sheet, to search for more sheets. There may be cases when a few sheets of media remain inside the printer. In some circumstances, for example when a duplex unit has been fitted, it is possible to have several sheets in the printer at different locations at the same time.

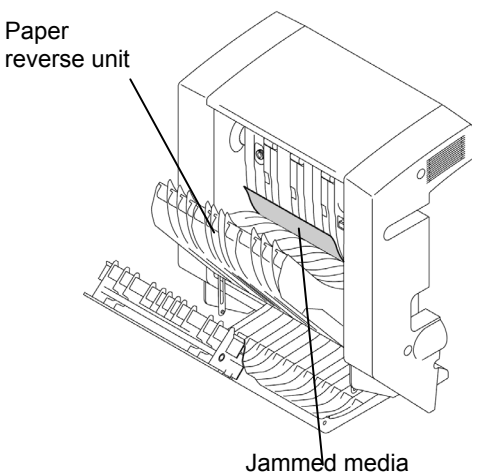
CAUTION! *During and immediately after the printer's operation, avoid touching the fuser unit and the area around it because they remain hot enough to cause burns. Turn off the printer and wait for 30 minutes or more. After the printer has fully cooled, remove the jammed media.*



1. Hold the grip of the duplex cover, and pull it backward to open.

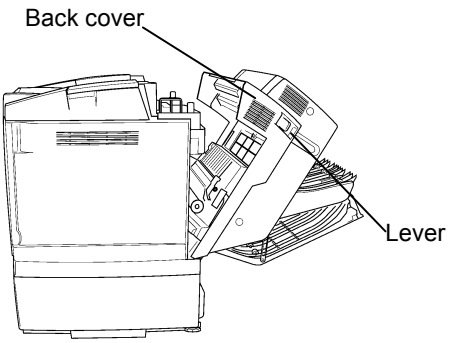


2. Carefully pull out the jammed media.

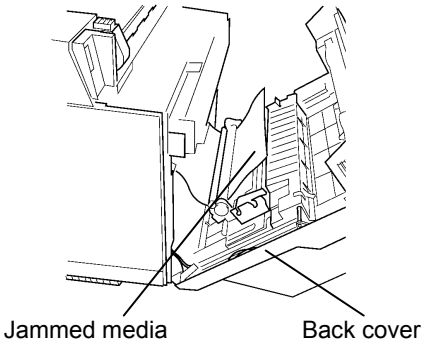


3. Pull the paper reverse unit and remove the jammed media.

▶ **Look into the opening and fully check that no media fragments are left in the bottom of the paper reverse unit.**

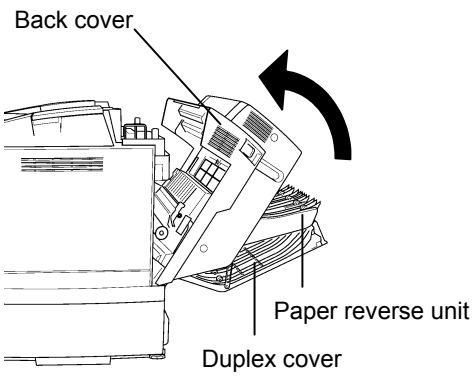


4. Pull the lever on the Back cover to unlock the back cover, and open the back cover supporting it until it has hinged fully back. Keep the back cover fully open.



5. Remove the jammed media.

- **The toner on the paper is not fixed. Pay attention not to soil your hands or clothes.**
- **Never touch the transfer Belt. Otherwise, printing quality may be degraded.**



6. Close the paper reverse unit and the duplex cover.

7. Close but still support the back cover until it locks into place.

If JAM-D occurs often

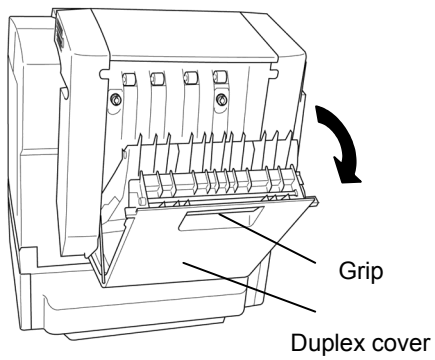
If JAM-D occurs often, check out the cause and take necessary actions according to the table below.

Item	Possible cause	Action	Page
Duplex cover	The duplex cover is not firmly shut.	Open the duplex cover and close it again.	–
	There remains a jammed media.	Remove the remaining media.	6-16
	There remains a jammed media deep in the duplex unit.	Open the paper reverse unit and remove the remaining media.	6-16
Media	Thick media out of specifications has been used.	Only use paper whose weight is 60-105g/m2 with the duplexer.	3-5
	Other media out of specifications has been used.	Use media that meets specifications.	3-4

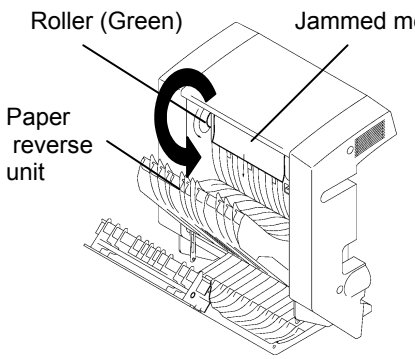
Removal Procedure for JAM-E

The procedure for resolving JAM-E instructs you, after removing the first jammed sheet, to search for more sheets. There may be cases when a few sheets of media remain inside the printer. In some circumstances, for example when a duplex unit has been fitted, it is possible to have several sheets in the printer at different locations at the same time.

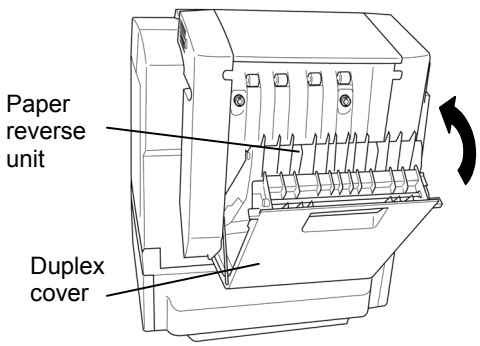
CAUTION! *During and immediately after the printer's operation, avoid touching the inside of duplex cover because it remains hot enough to cause burns. Turn off the printer and wait for 30 minutes or more. After the printer is fully cooled, remove the jammed media.*



1. Hold the grip of the duplex cover, and pull it back to open.



2. Pull the paper reverse unit.
3. Rotate the green wheel, at the upper left, and feed out the media remaining, if any, inside the duplex cover.



4. Close the paper reverse unit and the duplex cover.

If no jammed media can be found in steps (3):

Open the back cover according to the removal procedure for JAM-C, and find out the jammed media (Page 6-13).

If JAM-E occurs often

If JAM-D occurs often, check out the cause and take necessary actions according to the table below.

Item	Possible cause	Action	Page
Inside of the printer	There remains a jammed media.	Remove the remaining media.	6-13
Duplex cover	The duplex cover is not firmly shut.	Open the duplex cover and close it again.	–
	There remains a jammed media.	Remove the remaining media.	6-13
	There remains a jammed media inside the paper reverse unit.	Open the paper reverse unit and remove the remaining media.	6-19
Media	Thick media out of specifications has been used.	Only use paper whose weight is 60-105g/m2 with the duplexer.	3-5
	Other media out of specifications has been used.	Use media that meets specifications.	3-4

6.3 Actions on Print Quality Problems

Below are given some possible print problem and possible cures.

- Overall print is lighter than normal print, fill area on graphics show blank areas, white stripes appear in the printout, or small characters or hairlines do not print sharp.

Possible cause	Action	Page
A toner cartridge is becoming empty.	This symptom may occur when printing a large image. Replace the appropriate toner cartridge.	7-4
More than one sheet has been picked.	Print again.	–
The media is damaged or extremely dry.	Use new print media fresh from its package.	3-5
The media is not in compliance with the printer's specifications.	Use the media in compliance with the printer's specifications.	3-4
The media type specified on the printer driver is incorrect.	Change the media type setting to the correct one.	4-11 *
Save Toner is enabled on the printer driver.	Turn off Save Toner.	–
The print mode on the printer driver is set to 600 dpi.	Set the print mode to 1200 dpi by 1200 dpi.	–

* Also see "Chapter 5 Extended Features".

- Projections are dark or blurry (OHP film or transparency).
  Toner has peeled off. (thick paper or label)
  Printout is too glossy. (Plain paper)

Possible cause	Action	Page
An incorrect media type is specified on the printer driver.	Match the media type with the print media.	4-9 *

Also see "Chapter 5 Extended Features".

- Printing is too dark, black stripes appear, the image or background is dirty, or black characters or lines are blurry.

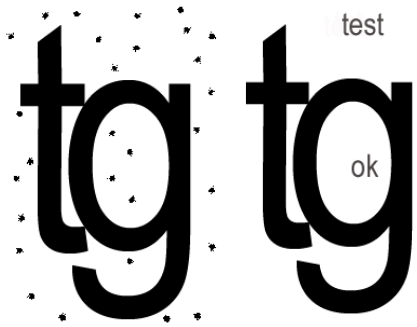
Possible cause	Action	Page
The charging roller on the belt cartridge is dirty.	Clean the charging roller.	6-28
The photosensitive belt is damaged or deteriorated.	Replace the belt cartridge.	7-6
The printer contains jammed media.	Remove the jammed media.	6-6
The media is damp.	Use new print media fresh from its package.	3-4

* Also see "Chapter 5 Extended Features".

- The non-printing side of the print media is dirty.

Possible cause	Action	Page
The inside of the printer was stained with the toner powder when you removed the jammed media.	Print several sheets to remove the toner powder.	–

Example of incorrect print	Recommended Action
White lines down the page.	If all colors are missing then clean the scanner glass as foreign particles have contaminated it. If the problem is with one color remove the developer and check if there is a matching missing line on the developer. If there is shake the cartridge from side to side and replace into the printer.
Misregistration between the colors	Power the printer off. Remove and check the charging belt and reinstall. Power the printer back allowing it to perform a calibration.

Example of incorrect print	Recommended Action
No printout or one missing color	Check that the back cover is closed. Check that the transfer roller is installed correctly. If the problem is with one particular color check the contacts at the end are clean. Try replacing the cartridge.
 Random toner dropped or image repeated from previous page	Check that the cleaner for the Transfer belt is correctly positioned. Check that the cleaner cover is correctly in place. Check that the contacts at the end of the cleaner are clean using a dry lint free cloth. Clean the transfer belt cleaner and the area below with a dry lint free cloth.

Example of incorrect print	Recommended Action
Image can be rubbed off after coming out of printer.	Check that media is suitable. Check that the printer driver setting is suitable for the media. Check if plain paper shows the same problem. Check that fuser shipping parts have been removed.
Lines down the page	If the lines are from one color replace that developer. Check that there are no scratches on the belt cartridge. Check that there is no problem with the charge roller at the bottom of the belt cartridge.

Example of incorrect print	Recommended Action
 Regular spots down the page	Replace the matching toner cartridge.
 Streakes on right 5 cm from the right hand side and 1 cm wide.	This is caused by the printer being interrupted during a calibration. If it does not clear after a 5 pages. Check the transfer belt cleaning roller and cover. Clean the transfer roller with a lint free cloth.

Example of incorrect print	Recommended Action
Uneven density left and right	Check that printer is level. If the problem is related to one color remove that cartridge and shake it. Clean the end contacts on the cartridge. Replace the cartridge.
Regular uneven density down the page	Check the toner cartridges. Clean the toner cartridges end contacts. Check the transfer belt cleaning roller is correctly installed together with its cover. Check that the back door is fully closed. Check the fusing unit. Beware this unit is hot. Power the printer off for half an hour before inspecting. Check the transfer roller.

6.4 Cleaning the printer to ensure good print quality and reliable media feed

Note: *It is important when following this section to start at the beginning and read and follow it all the way through. Throughout this section it is recommended for users to only use a clean dry lint free cotton cloth to clean parts. Ensure that you do not breathe in toner particles when cleaning and if toner comes into contact with your skin or clothes clean off using cold water only.*
Engineers only may need to use special vacuum cleaners to clean certain parts more thoroughly. These cleaners have very fine filters which ensures that toner removed from the printer is not sent back into the air. Also when vacuum cleaners are used to clean certain parts eg the transfer belt cleaner high static chargers will be generated.

Note: *Ensure that the printer is powered off before cleaning.*

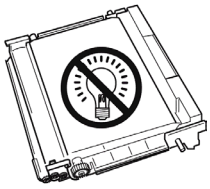
Print quality check list

Below are pictures which illustrate the items to check in order to maintain and produce good print quality. Use these together with the information given above.

If a sheet is printed with colored vertical stripes or color unevenness, clean the charging unit of the belt cartridge.

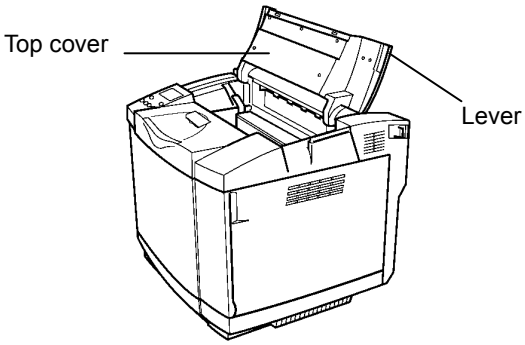
Notes on replacing the belt cartridge

- Do not touch the photosensitive belt.
- The photosensitive belt is very sensitive to light. If this belt is exposed to light of no less than 800 lux for no less than 2 minutes, it deteriorates, causing troubles in the images printed. Pay attention not to expose the belt cartridge to light wherever possible.



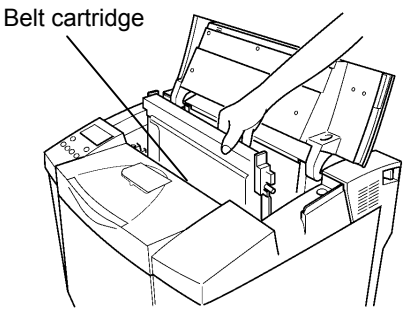
Cleaning procedure

- **Removing the belt cartridge**



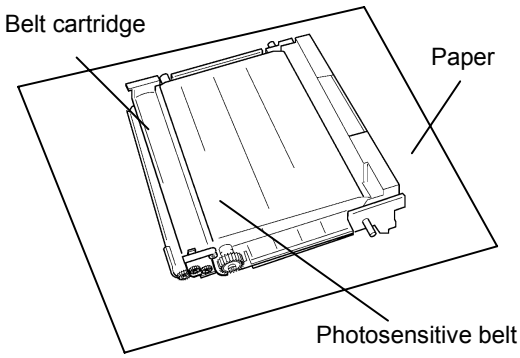
1. Turn off the printer.

2. Open the front cover and pull the 4 developers out about an inch. Open the top cover and leave it fully open throughout this work.

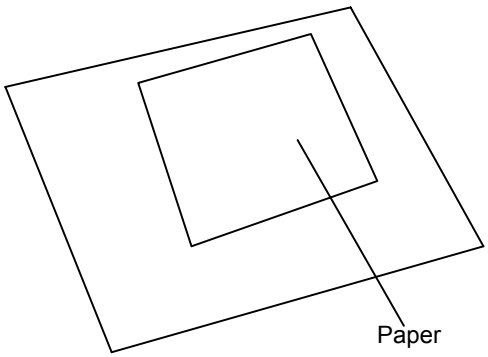


3. Push the 2 green levers in to the unlock position and carefully remove the belt cartridge.

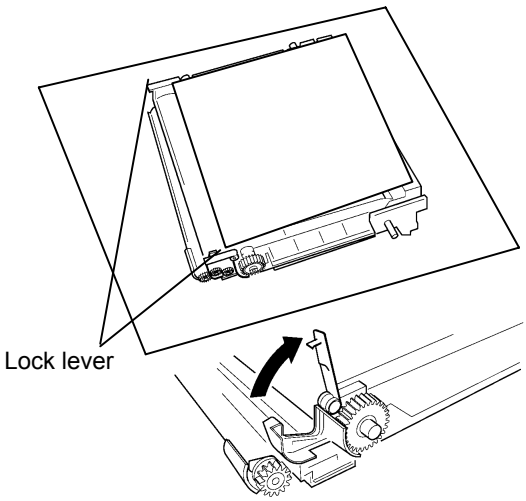
- **Cleaning the charging roller**



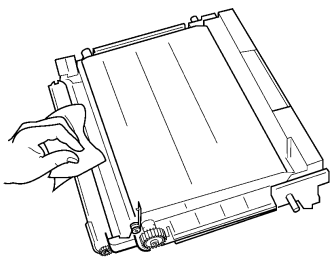
4. Put the belt cartridge onto clean paper with the photosensitive belt facing upward.



5. Put several clean sheets of paper over the photosensitive belt to protect it from light.

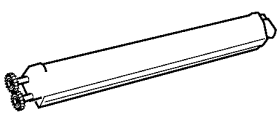


6. Release the two lock levers which secure the charging roller.

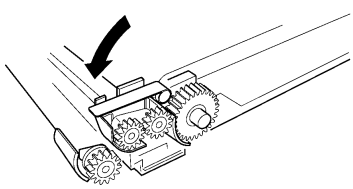


7. Pull up to remove the charging roller.

8. Clean the area below where the charging roller normally sits using dry lint free cotton cloth.



9. Clean the charging roller with dry lint free cotton cloth.



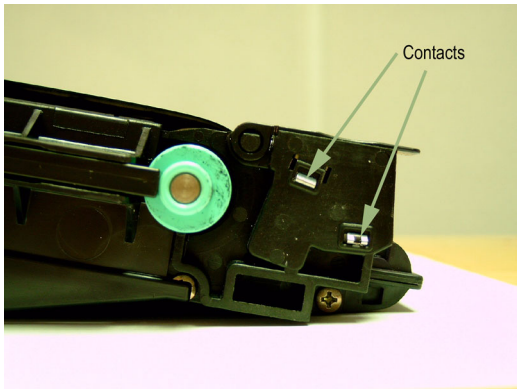
10. Re-install the charging roller.

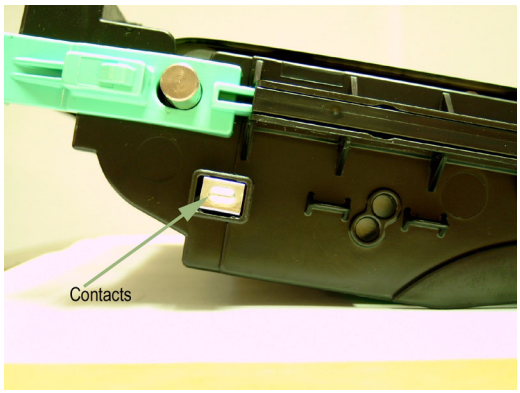
11. Secure the charging roller using the lock levers.

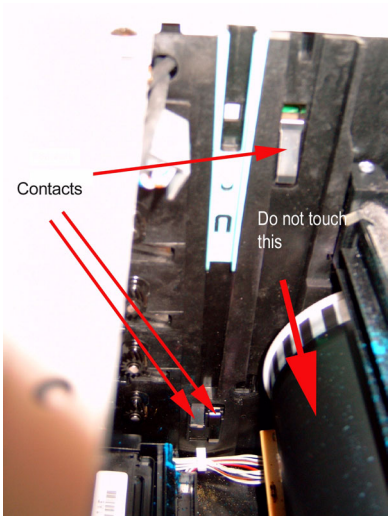
12. If it is necessary to carry on cleaning other consumables of the scanner glass replace the paper over the belt cartridge. Otherwise jump to replacing the belt cartridge.

Cleaning the belt cartridge contacts

Clean the electrical contacts, as shown below, on the left hand side of both the printer and belt using a dry lint free cotton cloth.

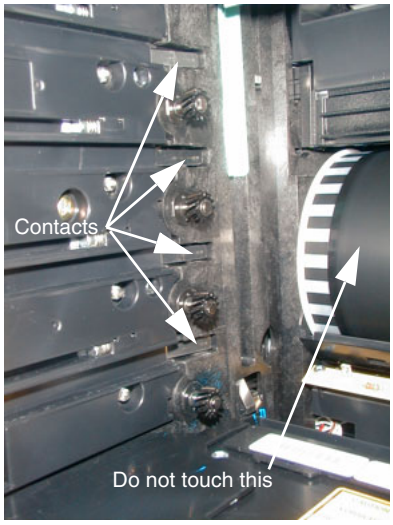


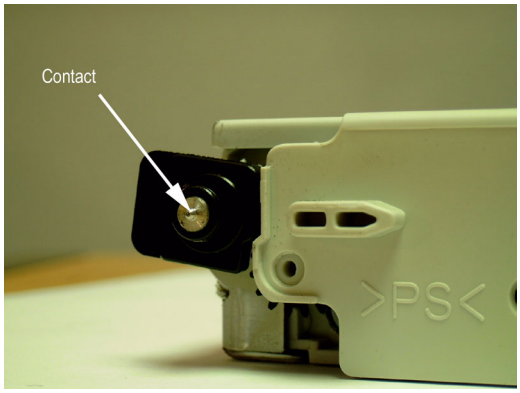




Cleaning the toner cartridge contacts

Clean the electrical contacts, as shown below, on the left hand side of both the printer and each toner cartridge using a dry lint free cotton cloth.





Cleaning the scanner glass, printer inside and transfer belt cleaning roller

If there are vertical white lines on all the colors down the page then it is likely that the laser windows has become contaminated with toner. If this is the case then it is possible that the inside of the printer needs cleaning. To do this follow the procedure below.

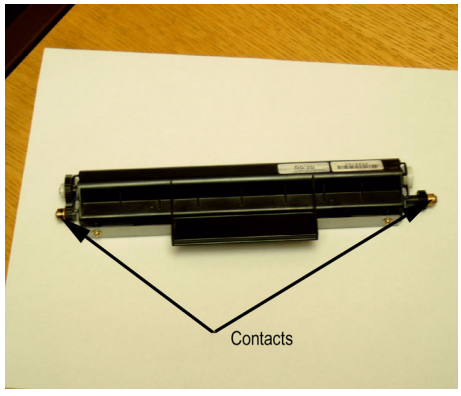
Cleaning the Transfer belt cleaning roller

- **Checking and removing the Transfer belt cleaning roller cover**

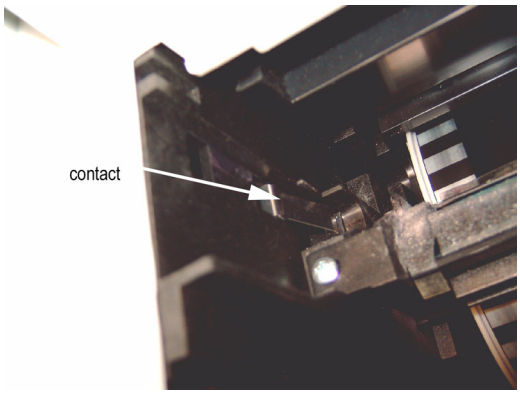
The transfer belt cleaning roller cover is shown below. Note that the cover is secured by the 2 clips you should not be able to lift the cover without bending the clips in the direction of the left and right arrows arrows. When you bend the clips in you should hear the cover unclip from both sides. Note. It is important also that they clip back into place when the cover is returned. Remove the cover. The left and right arrows are highlighted below. The front arrow advises which way to insert the cover.

- **Removing and cleaning the transfer belt cleaning roller and area below**

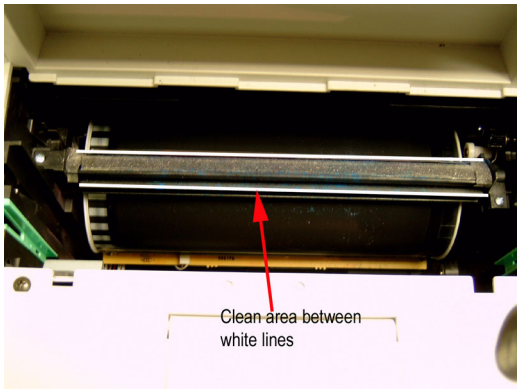
Next remove the transfer belt cleaning roller by holding the handle. Using a dry lint free cloth clean the contacts at the end. Clean the surface of the roller only if badly contaminated. Note do not breathe in any toner.



Clean the transfer belt cleaning roller contact on the left hand side of the printer using a dry lint free cloth.



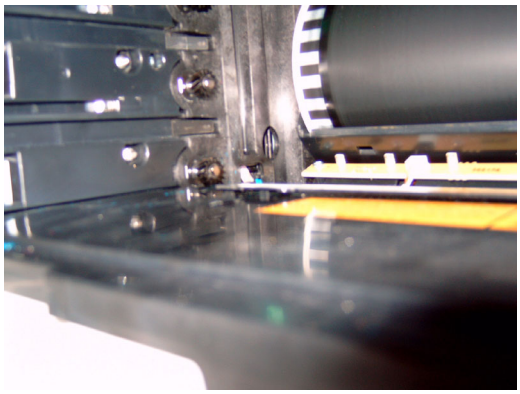
Clean the area below the transfer belt cleaning roller using a dry lint free cotton cloth. Be careful not to touch the transfer belt.



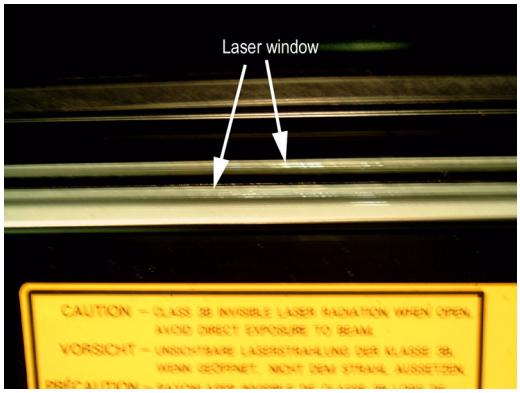
Clean the black laser cover using a dry lint free cotton cloth.

Cleaning the laser windows

Open the laser window cover.



Clean the along the laser windows with a dry lint free cloth.

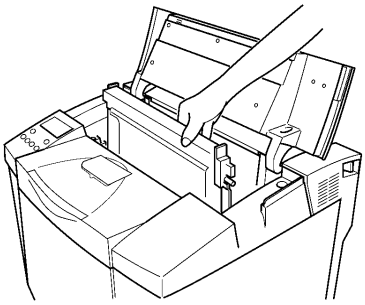


Close the laser window cover.

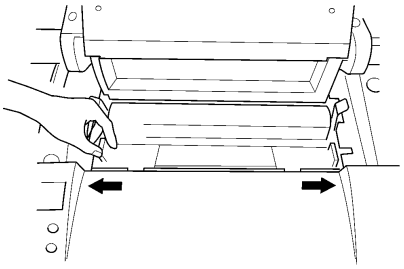
Re-insert the following:

- Transfer belt cleaning roller. The roller should be facing the front when you re-insert this unit. Ensure the end contacts on the cleaning roller match the slots on the printer and the drive gear on the right meshes with the printer's drive gear.
- Transfer belt cleaning roller cover. The arrow in the middle of the cover should point towards the back of the printer Ensure both sides are clipped into place

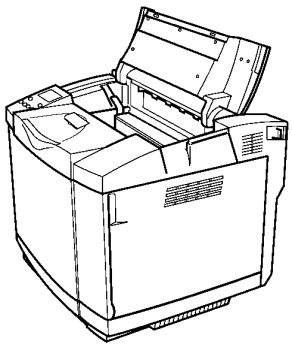
- **Replacing the Belt cartridge**



1. With the photosensitive belt facing front, slide the belt cartridge into the printer along the guide for the lock lever.

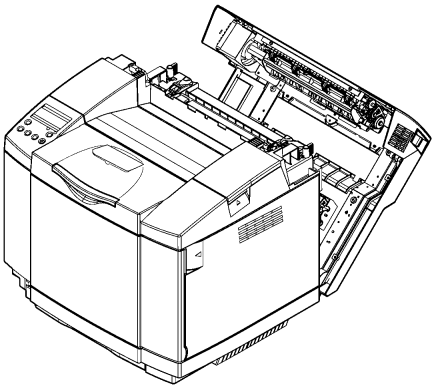


2. Pull the green levers out to lock the unit.

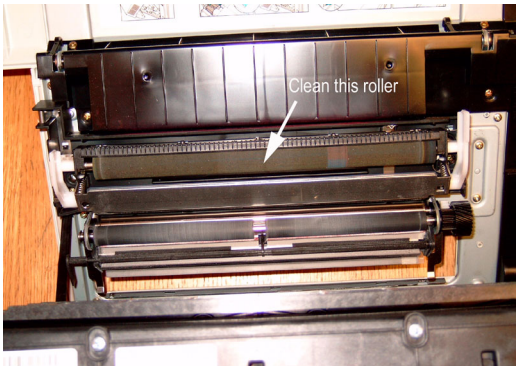


3. Close the top cover ensuring that you keep holding it until it locks into place: do not let the cover drop. Insert the toner cartridges. Close the front cover.

Cleaning the transfer roller

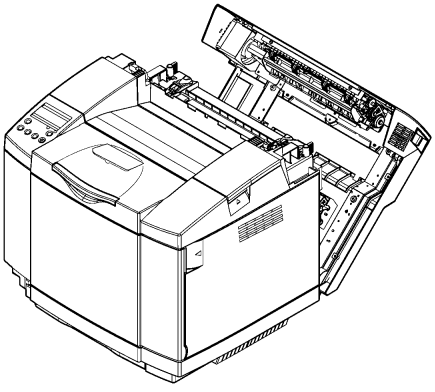


1. Remove the duplex unit if fitted to allow easier access.
2. Open the back cover.



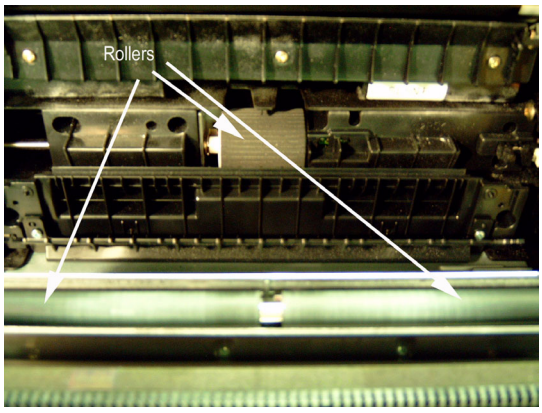
3. Clean the transfer roller by rotating it at the ends and cleaning along its length with a lint free dry cloth. Be careful of the plastic guide which sits onto of the roller. It has a serrated edge and there is a metal foil also just below also with a serrated edge.

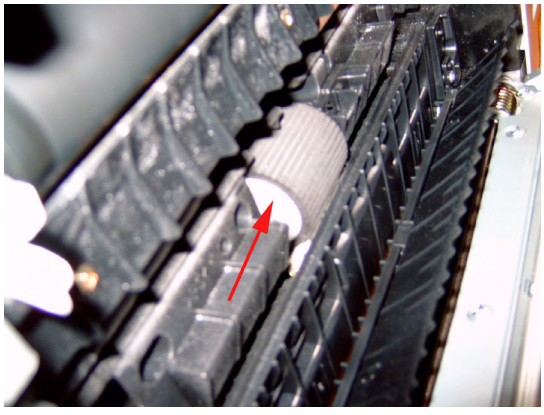
Cleaning for reliable media feed



1. Remove the duplex unit if fitted to allow easier access.
2. Open the back cover.
3. Remove the standard paper feeder cassette and if fitted remove the cassette from the optional feeder.

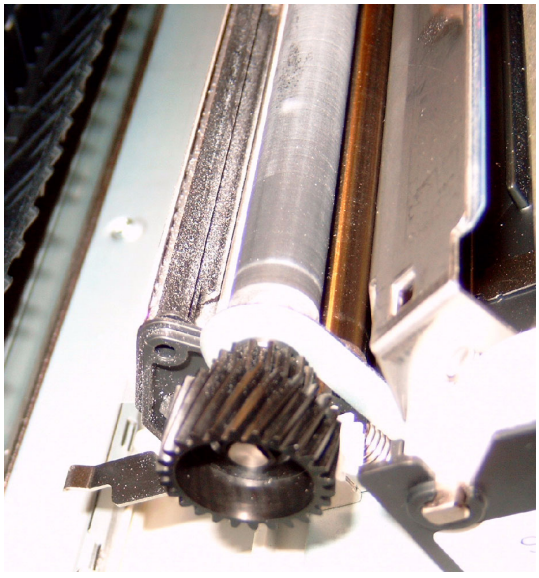
Cleaning Pick up roller (1)





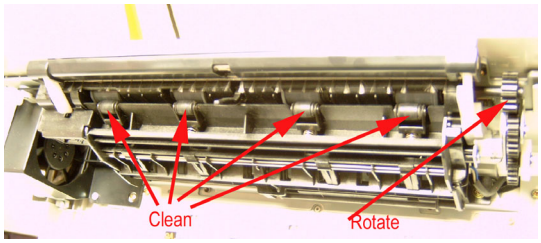
4. Clean the large diameter pickup, by rotating the white plastic roller on the left hand side of the roller and clean along its length with a lint free dry cloth.

Cleaning the registration roller



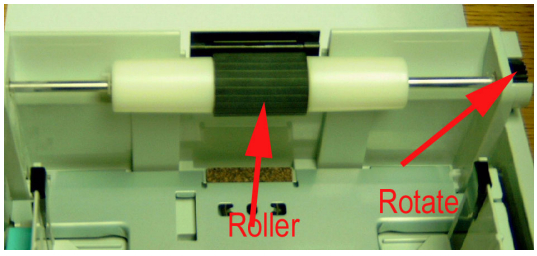
5. Clean the registration rollers by rotating the black gear on the left hand side of the roller and clean along its length with a lint free dry cloth.

Cleaning the paper exit rollers



6. Clean the 4 exit rollers in the upper part of the rear cover rotate the gear on the right hand side to allow cleaning of entire roller. Clean using a lint free dry cloth.

Cleaning Pick up roller (2)



7. Remove paper from the optional feeder. Rotate the gear on the right hand side and clean along the length of the pickup roller with a lint free dry cloth.

6.5 Checking for new printer drivers

If you still have a problem it would be worth checking on our web site to see if there are any later drivers available to try.

Loading new drivers

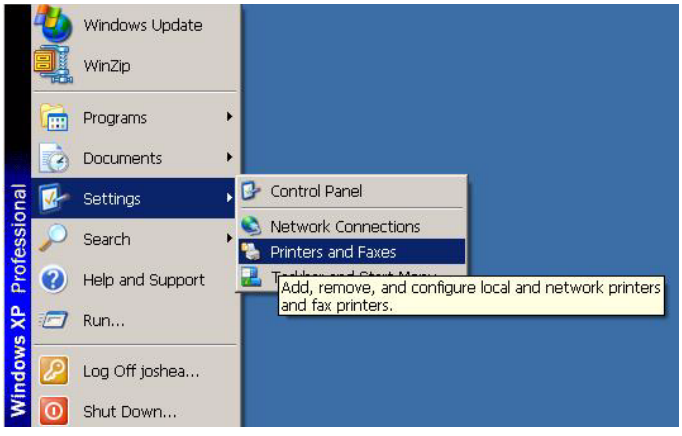
If new drivers are available it is important that the old drivers are removed first before the new drivers are added.

To uninstall the existing old printer driver, follow the procedure below.

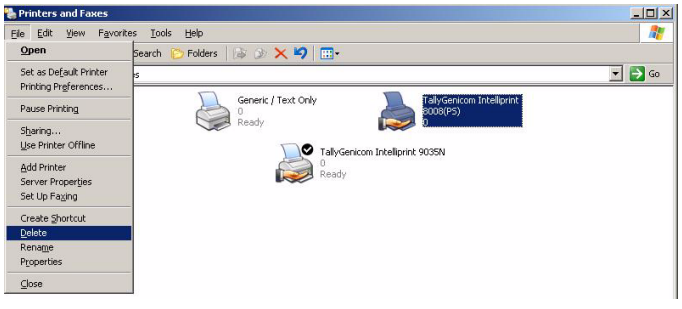
Note: *To remove the Windows NT 4.0, Windows 2000, Windows XP, and Windows Server 2003 printer driver you must be logged on as an administrator or equivalent.*

Procedure for removing printer drivers

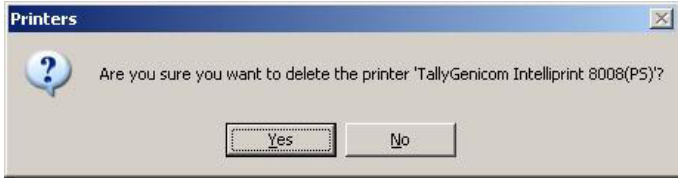
1. Ensure that you close all programs.



2. Select **Start**, **Settings**, **Printers** from the task bar.



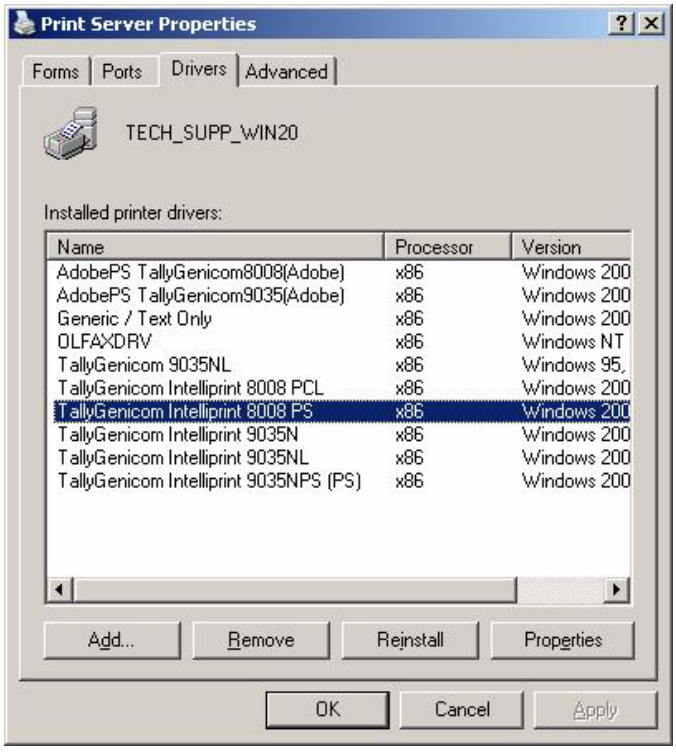
3. Click the printer to be uninstalled, select **File**, **Delete** from the menu bar.



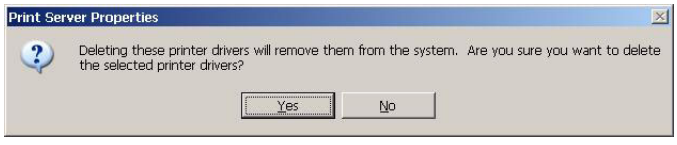
4. Click the **Yes** button to confirm the deletion.

5. In case of Windows XP, Windows 2000 or Windows Server 2003 only, the printer driver should be removed using server properties as well. This will completely remove the driver from the system. If this printer is shared from the system it will also allow those drivers to be deleted.

6. Select **File**, **Server Properties** from the printer window.



7. Click the **Drivers** tab, click the driver. If the printer has been shared there may also be drivers for other systems loaded on as well. If this is the case shift and click these as well. Click the **Remove** button.


Print Server Properties
Deleting these printer drivers will remove them from the system. Are you sure you want to delete the selected printer drivers?
Yes
No

8. Click the **Yes** button to confirm you want to remove the drivers.

Print Server Properties
Unable to remove TallyGenicom Intelliprint 8008(PS), x86, Windows 2000, Windows XP and Windows Server 2003 driver. The specified printer driver is currently in use.
OK

9. If you receive the following window this is normally because there is an application still open.

10. Close all applications and restart the computer. Go back into server properties driver highlight the printer driver again and select the remove button.

Note: *If it is still not possible to remove the drivers or you want to check that they have been removed: Use Windows explorer and check that all the files used by the driver as printed on the test page have been removed. If not delete them.*

11. Add the new replacement printer drivers.

6.6 Actions on Abnormal Printer Operation

Take appropriate actions on printer troubles according to symptoms.

The printer is not fed power

Possible cause	Action	Page
The main power switch is not turned on.	Turn on the main power switch.	3-2
The power cord is not connected.	Connect the power cord.	2-17
The power cord is damaged.	Ask your dealer or service representative to replace the power cord.	–
The wall outlet is not supplied with electricity.	Check the circuit breaker and other switches so that the wall outlet is supplied with electricity.	–

Impossible to print

	Possible cause	Action	Page
Printer	The printer is in the status in which printing is not available (symptom: ERROR lamp on).	Take actions according to the LCD message on the printer's control panel.	4-2
	The printer is offline (symptom: lamp off).	Press the START/STOP key to enter ready mode. (The lamp lights.)	4-2
	A printer time-out occurred.	In the menu on the printer's control panel, increase the time-out value.	–
PC	You are using the printer driver for a different printer.	Use the printer driver for this printer.	–
	You are attempting to print a document with a huge amount of image data.	Print the document on a page by page basis. Alternatively, increase free space in the hard disk of the PC.	–

	Possible cause	Action	Page
Local connection	The USB cable is not connected.	Make sure that the USB cable is connected.	2-23
	The printer's control panel is set not to use the USB port.	Ensure that USB port, under Interface menu, is set to on.	4-14
	A processing time-out occurred on the PC.	Increase the time-out value on the printer driver.	–
	The LAN cable is not connected or it is damaged.	Check out the LAN cable.	–
	The network system is failing or in trouble.	Check out the LAN port settings on both the network system and the printer.	–

* Also see "Chapter 5 Extended Features".

Printing is slow

	Possible cause	Action	Page
PC	On the printer driver, you have selected a media type other than plain paper.	Printing on a media other than plain paper takes twice or more times as long as printing on plain paper.	3-4
	The processing speed of the PC is slow.	Improve the CPU performance, memory capacity, and free disk space on the PC. **Note:** *Printing a document with a huge amount of image data may take much time.*	–

Chapter 7
Replacing Consumables and Replacable Parts

7.1 Consumables 7-2

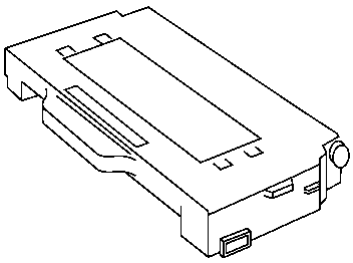
7.2 Replacing Consumables 7-4

7.3 Periodical Replacement Parts 7-14

7.1 Consumables

The printer has the following consumables.

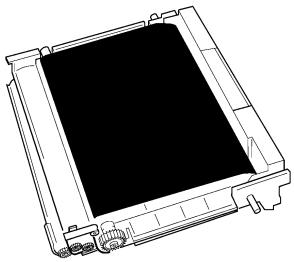
- **Toner cartridges**
  - Black (K) (Part No. 043 339)
  - Yellow (Y) (Part No 043 338)
  - Magenta (M) (Part No. 043 337)
  - Cyan (C) (Part No. 043 336)



These toner cartridges based on A4 print size, 5% coverage of individual toner colors, and continuous print will last up to 10,000 pages (K) and 6,600 pages (Y, M and C). They should also be replaced if they have been used in the printer for 12 months.

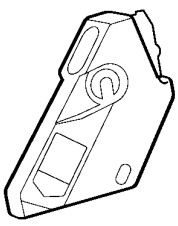
Note: *The initial toner cartridges supplied with the printer will last up to 1500 pages.*

- **Belt cartridge** (Part No. 043 340)



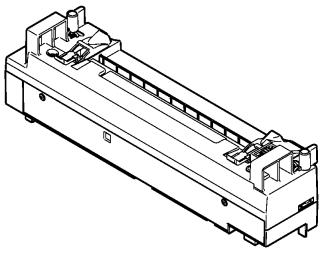
The approximate schedule for replacing this photosensitive belt cartridge based on A4 print size, 5% coverage of individual toner colors, and continuous print is either 60,000 images (15,000 pages in color) or once per 12 months, whichever comes first.

- **Waste toner pack** (Part No. 043 341)



This pack stores waste toner. The approximate schedule for replacing the waste toner pack based on A4 print size, 5% coverage of individual toner colors, and continuous print is when 12,000 images (3,000 pages in color) are printed.

- **Fuser unit** (Part No. 230 V: 043 342
  110 V: 043 343)



The approximate schedule for replacing the fuser unit based on A4 print size, 5% coverage of individual toner colors, and continuous print is when 60,000 pages are printed.

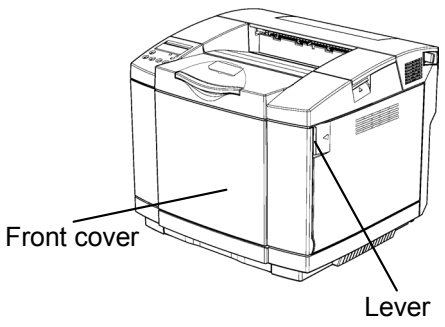
7.2 Replacing Consumables

7.2.1 Replacing the Toner Cartridge

Replace the toner cartridge according to the procedure below.

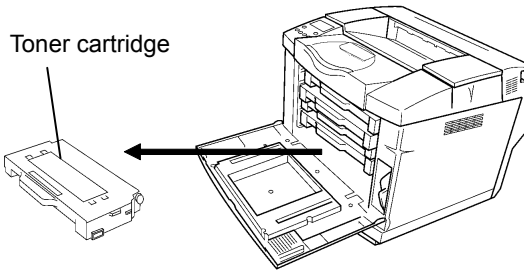
CAUTION! *Do not incinerate the toner cartridge. Sparks may be generated, causing burns.*
Take care not to spill toner. If toner gets into your eyes, immediately flush your eyes using clean water for 15 minutes or more, and then seek the attention of a doctor.

Note on replacing the toner cartridge: Handle the toner cartridge with its label facing upward. Do not stand or reverse the toner cartridge.

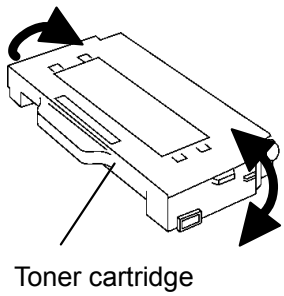


The printer will first advise to check the toner X. This is a warning to order more toner as the printer will soon run out The printer will carry on printing and then advise replace tonerX. At this stage it is necessary to replace the requested toner cartridge X: k is black, c is cyan, m is magenta and y is yellow.

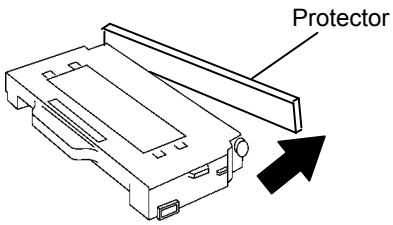
1. Unlock the lever on the front cover and open the front cover.



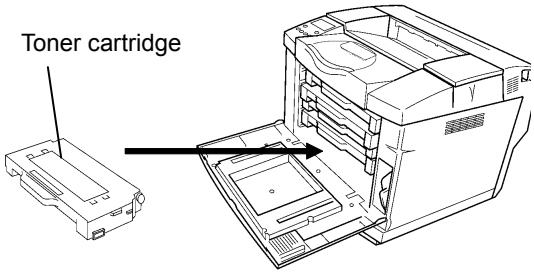
2. Remove the used toner cartridge, paying attention not to spill the toner. Do not handle mo than one toner cartridge at the same time.



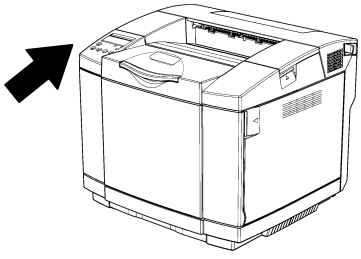
3. Gently rock a new toner cartridge three or four times in the direction of arrows to level out the toner inside the cartridge.



4. Peel off the tape, and remove the protector for the toner cartridge from the right. Do not lose the protector because it is necessary for transporting the printer.



5. Slide the toner cartridge along the guides into the printer.



6. Close the front cover securely by pushing it until it locks.

Panel operation after replacing the toner cartridge

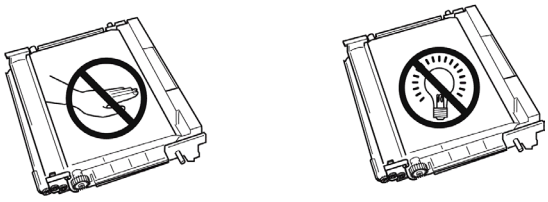
Ready	**1.** Ensure that "Ready" is displayed on the LCD.
Menu **Job Library**	**2.** Press the MENU key. Press the NEXT key until "System Menu" appears.
System Menu **Factory Defaults**	**3.** Press SELECT key. Press the NEXT key until "Reset Toner Life" appears.
System Menu **Reset Toner X Life**	**4.** Press the NEXT key until the toner is shown to be reset is shown. Press the SELECT key to reset the X Toner life.
Ready	**5.** Press START/STOP key to return "Ready" status.

7.2.2 Replacing the Belt Cartridge

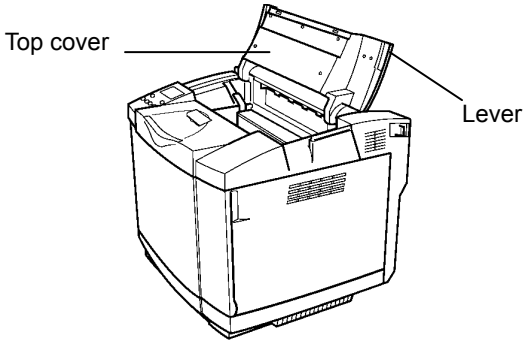
Replace the belt cartridge according to the procedure below.

Notes on replacing the belt cartridge

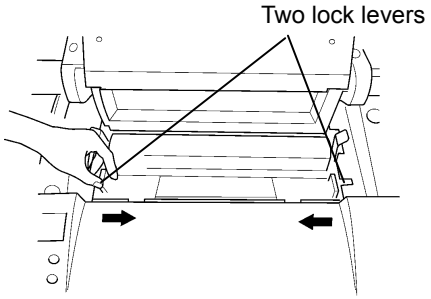
- Do not touch the photosensitive belt.
- The photosensitive belt is very sensitive to light. If this belt is exposed to light of no less than 800 lux for no less than 2 minutes, it deteriorates, causing troubles in the images printed. Pay attention not to expose the belt cartridge to light wherever possible.



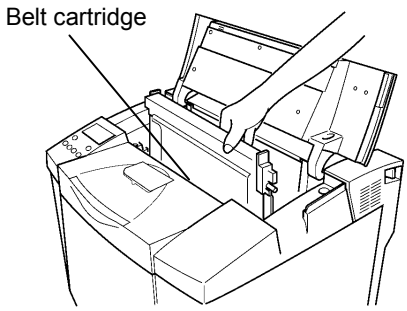
- After you replace the belt cartridge, be sure to perform the control panel operation that sets the replacement period for the belt cartridge. Continued use of the printer without monitoring the life of this consumable part may degrade the print quality or could cause physical damage to the printer.



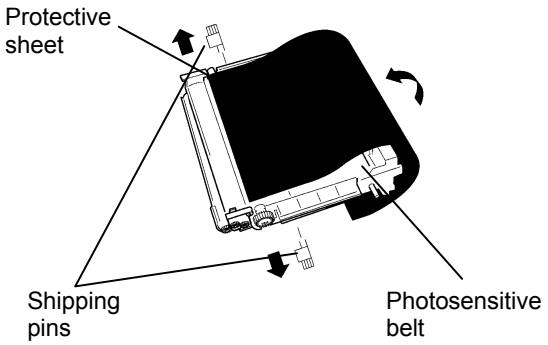
1. Power the printer off. Open the top and front covers. Pull the 4 developers inside the front cover out about an inch.



2. Pull in the two green lock levers securing the belt cartridge.



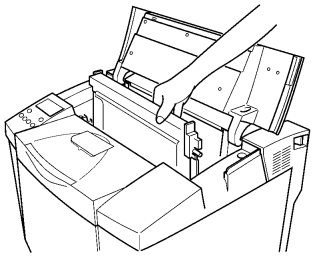
3. Remove the belt cartridge by holding the black handle.



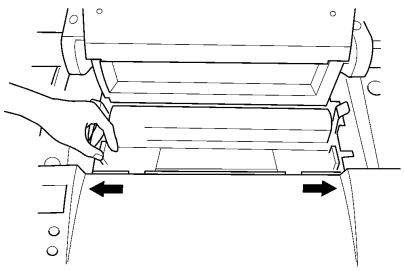
4. Remove the two shipping pins from the new belt cartridge.

5. Remove the protective sheet for the belt cartridge. Pay attention to the following:

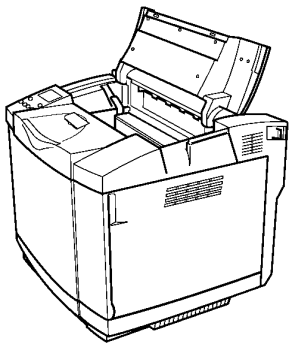
- **Do not touch the photosensitive belt.**
- **Do not wipe off any of the white powder adhering to the photosensitive belt.**



6. With the photosensitive belt facing front, slide and keep hold of the black handle as it goes down the guide. When it stops ensure that both ends of the belt are fully down by pushing down slightly on the left and right hand side of the handle.



7. Pull the lock levers out to lock the belt cartridge in place.



8. Close the top cover by closing it and supporting the cover until it locks into place. Do not let it drop down. Slide the 4 toners back in and close the front cover. Power the printer back on.

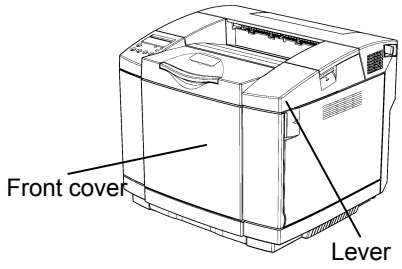
Panel operation after replacing the belt cartridge

Ready	**1.** Ensure that "Ready" is displayed on the LCD.
Menu **Job Library**	**2.** Press the MENU key. Press the NEXT key until "System Menu" appears.
System Menu **Factory Defaults**	**3.** Press SELECT key. Press the NEXT key until "Reset Belt Life" appears.
System Menu **Reset Belt Life**	**4.** Press the SELECT key to reset the belt life.
Ready	**5.** Press START/STOP key to return "Ready" status.

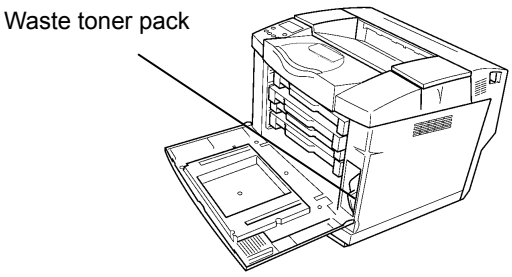
7.2.3 Replacing the Waste Toner Pack

Replace the waste toner pack according to the procedure below.

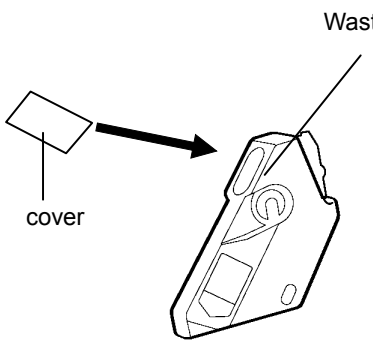
CAUTION! *Do not incinerate the waste toner pack. Sparks may be generated, causing burns.Take care not to spill any toner. If toner gets into your eyes, immediately flush your eyes with clean water for 15 minutes or more, and then seek the attention of a doctor.*



1. Unlock the lever on the front cover and open the front cover.

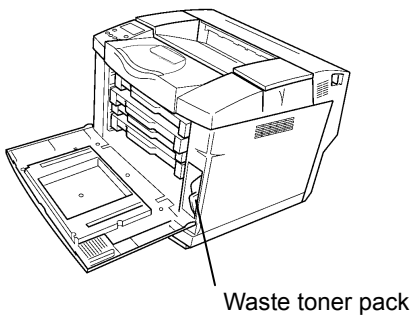


2. Remove the filled waste toner pack from the printer.

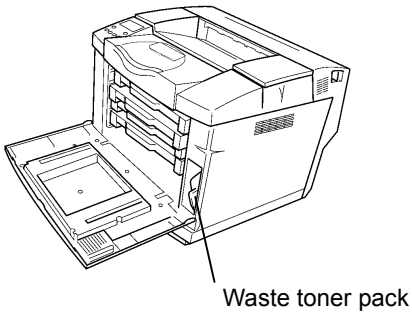


3. Seal the removed waste toner pack with the cover supplied with sthe new waste toner pack.

▶ **To prevent waste toner from leaking, place the waste toner pack into the polyethylene bag that came with the new waste toner pack, and seal the bag.**



4. Place the new waste toner pack into the printer.

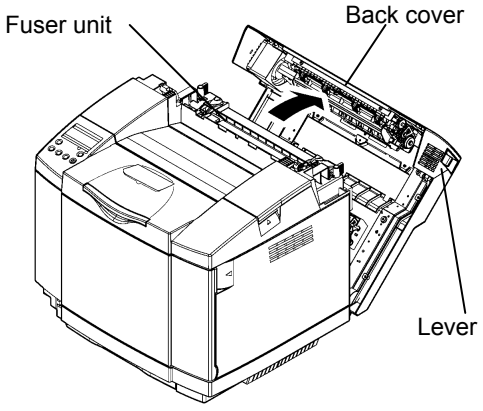


5. Close the front cover securely by pushing it until it locks.

7.2.4 Replacing the Fuser Unit

Replace the fuser unit according to the procedure below.

CAUTION! *The fuser unit and the area around it are hot during and immediately after using the printer. If you touch them, you may be burned. Turn off the printer, and then wait for more than 30 minutes. After the printer is fully cooled, replace the fuser unit.*

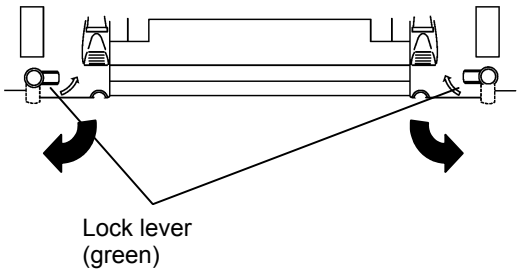


1. Turn off the printer.

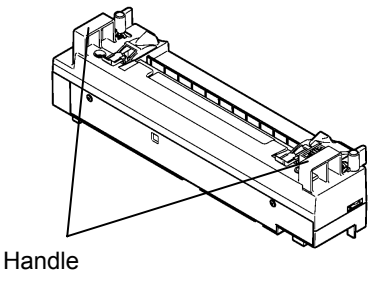
▶ **Wait for more than 30 minutes.**

2. Pull the lever on the Back cover to unlock the back cover, and open the back cover until it stops.

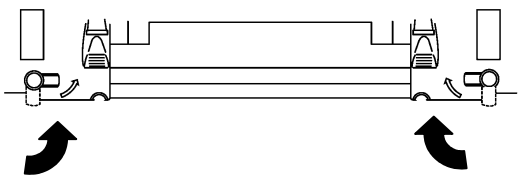
▶ **Keep the top cover fully open during the replacement work.**



3. Release the two green lock levers.

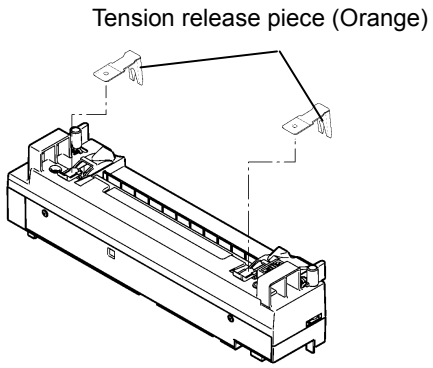


4. Remove the old fuser unit by holding onto the handles.

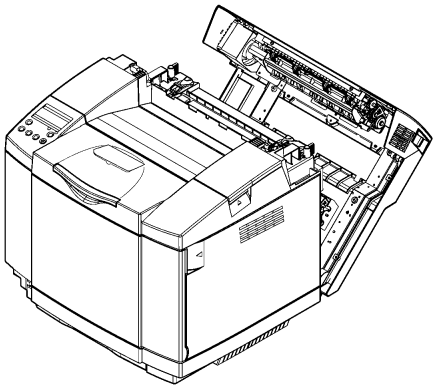


5. Insert a new fuser unit.

6. Turn the two green lock levers to secure the fuser unit.



7. Pull out the tension release piece (orange colored), if fitted, provided on the left and right side of fuser unit.



8. Close and support the back cover until it locks into place. Power the printer back on.

Panel operation after replacing the fuser unit

Ready	**1.** Ensure that "Ready" is displayed on the LCD.
Menu **Job Library**	**2.** Press MENU key. Press the NEXT key until the "System Menu" appears.
System Menu **Factory Defaults**	**3.** Press the SELECT key. Press the NEXT key until "Reset Fuser Life" appears.
System Menu **Reset Fuser Life**	**4.** Press the SELECT key to reset the fuser life.
Ready	**5.** Press the START/STOP key to return to "Ready" status.

7.2.5 Notes on discarding the Consumables

Follow a method for disposing of and sorting such articles if the method is specified by municipal bylaws. If you entrust a commercial processor with the handling of consumables as industrial wastes, refer to the types and characteristics of consumables below.

Consumables	**Manifest information**			
	Type	Shape	Heavy metals	Characteristics
Toner cartridge (K) Toner cartridge (Y) Toner cartridge (M) Toner cartridge (C) Belt cartridge Waste toner pack Fuser unit	Waste plastics Cinders Scrap metal	Solid	None	–

CAUTION! *Do not incinerate toner cartridges and waste toner packs. Sparks may be generated, causing burns.*

7.3 Periodical Replacement Parts

Some of the component parts of the printer, which become worn or deteriorated according to the amount of usage (or ellapsed time of use) must be periodically replaced at the expense of the printer's owner. Such component parts are referred to as "periodical replacement parts". Normally a service engineer should replace these parts available as a service kit. Contact your dealer or service representative.

No.	Periodic replacement Parts	To be replaced with	Available as
2	Transfer roller	120,000 Pages	Service Kit
3	Transfer belt cleaning roller	120,000 Pages	Service Kit
4	Paper Feed Roller	120,000 Pages	Service Kit
5	Separator Pad	120,000 Pages	Service Kit

- Since the lifespan of periodical replacement parts depends on how they are used, there may be cases when replacement is required earlier than the above schedule.
- Continued use of a periodical replacement part beyond its lifespan not only causes print quality problems or media jams but also could lead to hardware failure.

In some circumstances the Transfer roller and Transfer belt cleaner can be replaced by a user but an engineer has to fit the feeder roller. A brief outline of replacing these parts is given below but please contact your service center for more details.

Transfer Belt cleaner replacement

Power the printer off. See "Chapter 6 Troubleshooting and Maintenance".

Transfer roller replacement

1. Power the printer off.
2. Open the back cover of the printer.
3. Hold the white 2 plastic clips in slightly, raise and remove the transfer roller when the angle of the assembly allows the removal of the unit from the slots.

CAUTION! *Be careful of the serrated edges on the unit.*

4. Replace the unit with a new part ensuring that you are inserting it the correct way up, metal plate uppermost, and angle the unit first to allow the shaft to fit the slot on both sides before lowering the white plastic parts down to be locked into position.

Chapter 8
Options

8.1 Paper feeder 8-2

8.2 Duplex unit 8-7

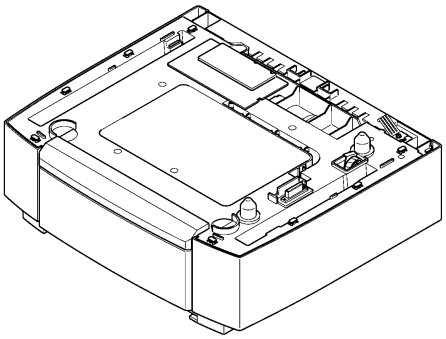
8.1 Paper feeder

8.1.1 Packed Supplies

The following are packed for the supplies of the paper feeder.

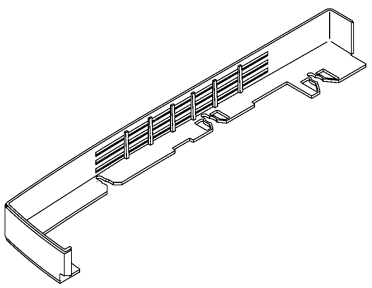
If some of the supplies are missing or damaged, contact your sales representative.

- **Paper feeder unit (with Paper cassette)**

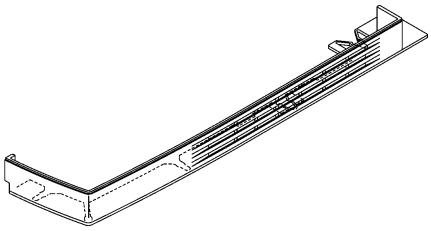


- **Two Metal stoppers**

- **Left cover**



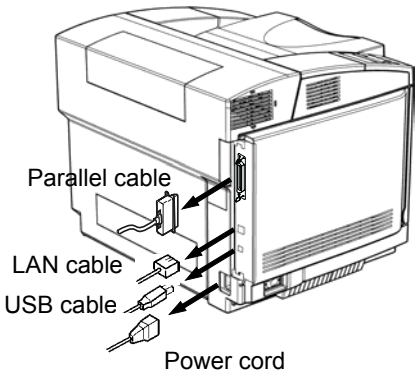
- **Right cover**



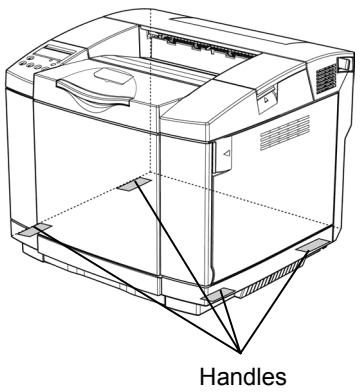
8.1.2 Before Installing to the Printer

Since the paper feeder is installed at the bottom of the printer, you must position the printer so that you are able to install the paper feeder in it.

CAUTION! *Always have more than two persons work together to carry the printer to prevent a possible injury to your back. The printer weighs as much as 31.5 kg (69 lbs.) without optional components.*



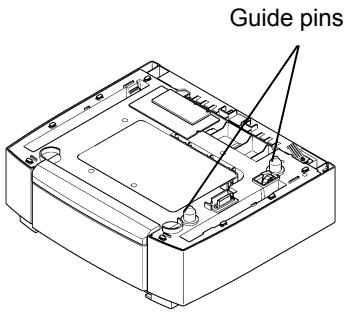
1. Turn off the printer.
2. Disconnect the power cord, printer cable, and LAN cable from the printer.



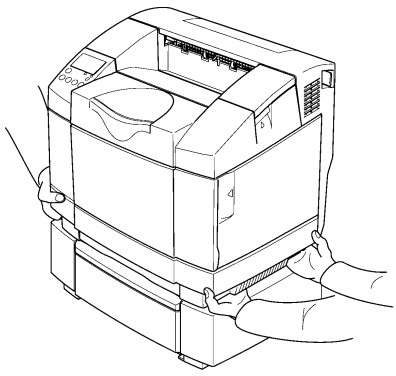
3. Grasp the handled firmly and have more than two persons to help carry the printer.

8.1.3 Installation

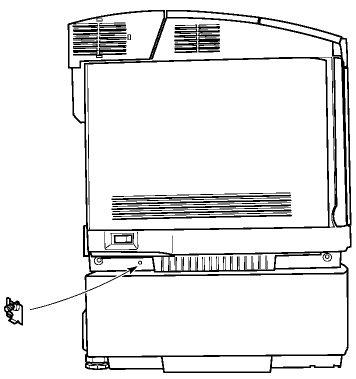
To install a paper feeder in the printer, follow the procedures below.



1. Install the paper feeder in place.

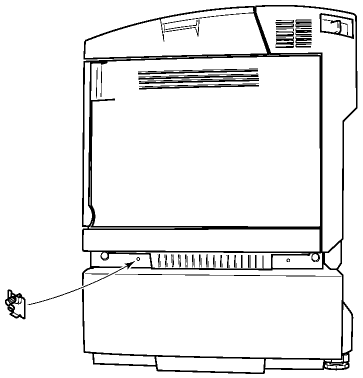


2. Place the printer on the paper feeder. Gently insert the right guide pin on the paper feeder into the pin hole at the bottom of the printer.



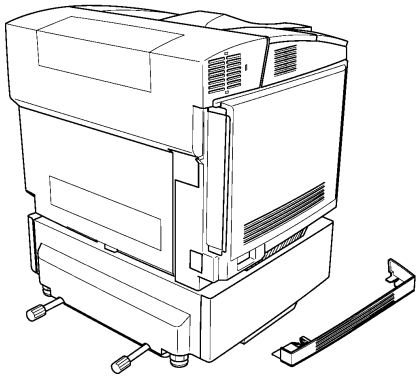
3. Tighten the thumb screw at the left back of the paper feeder.

▶ Make sure that the tab has been placed into the printer and paper feeder.

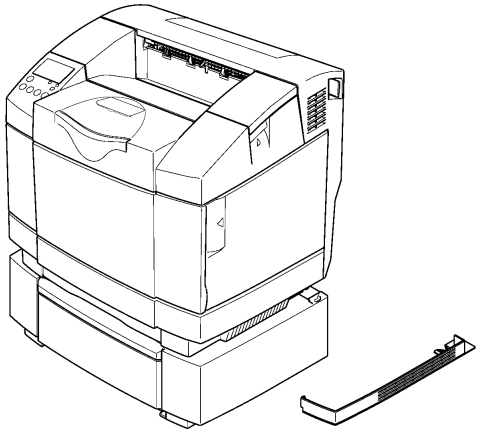


4. Tighten the thumb screw at the right front of the paper feeder.

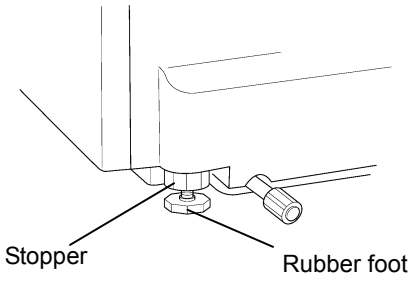
▶ Make sure that the tab has been placed into the printer and paper feeder.



5. Install the left cover.
Hook the pivot at the left back of the paper feeder and turn the left cover around the pivot and fit it on.

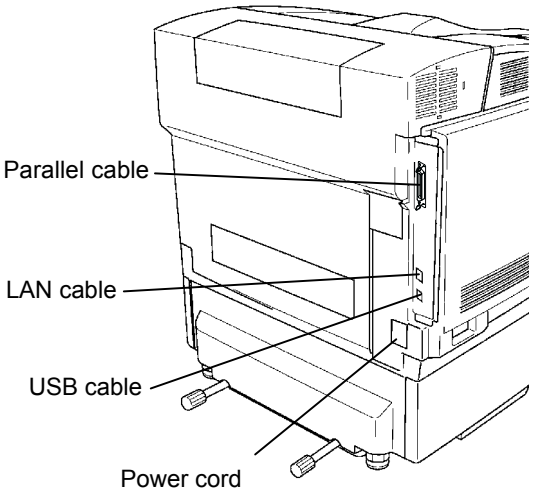


6. Install the right cover.
Hook the pivot at the left back of the paper feeder and turn the left cover around the pivot and fit it on.



7. Turn the two rubber feet to lightly touch them to the installation. The rubber foot is located at the back of the paper feeder. When you turn it right, the rubber foot lowers.

8. Secure the rubber foot with a stopper.
When you turn the stopper left to lift it up, the rubber foot is secured.



9. Connect the power cord, printer cable and LAN cable.

8.1.4 After Installation

If you have installed the paper feeder, check the operation by seleting the feeder in the printer driver.

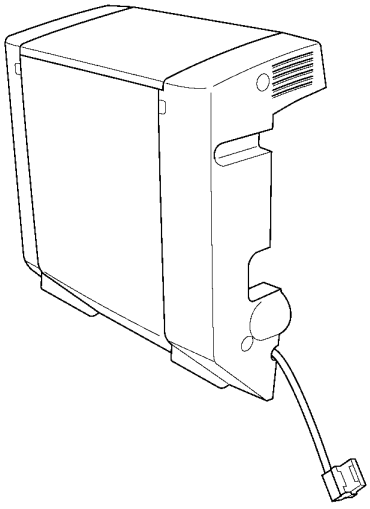
8.2 Duplex unit

8.2.1 Packed Supplies

The contents of the package are as follows.

If any component is missing or damaged, contact your dealer.

- **Duplex unit**

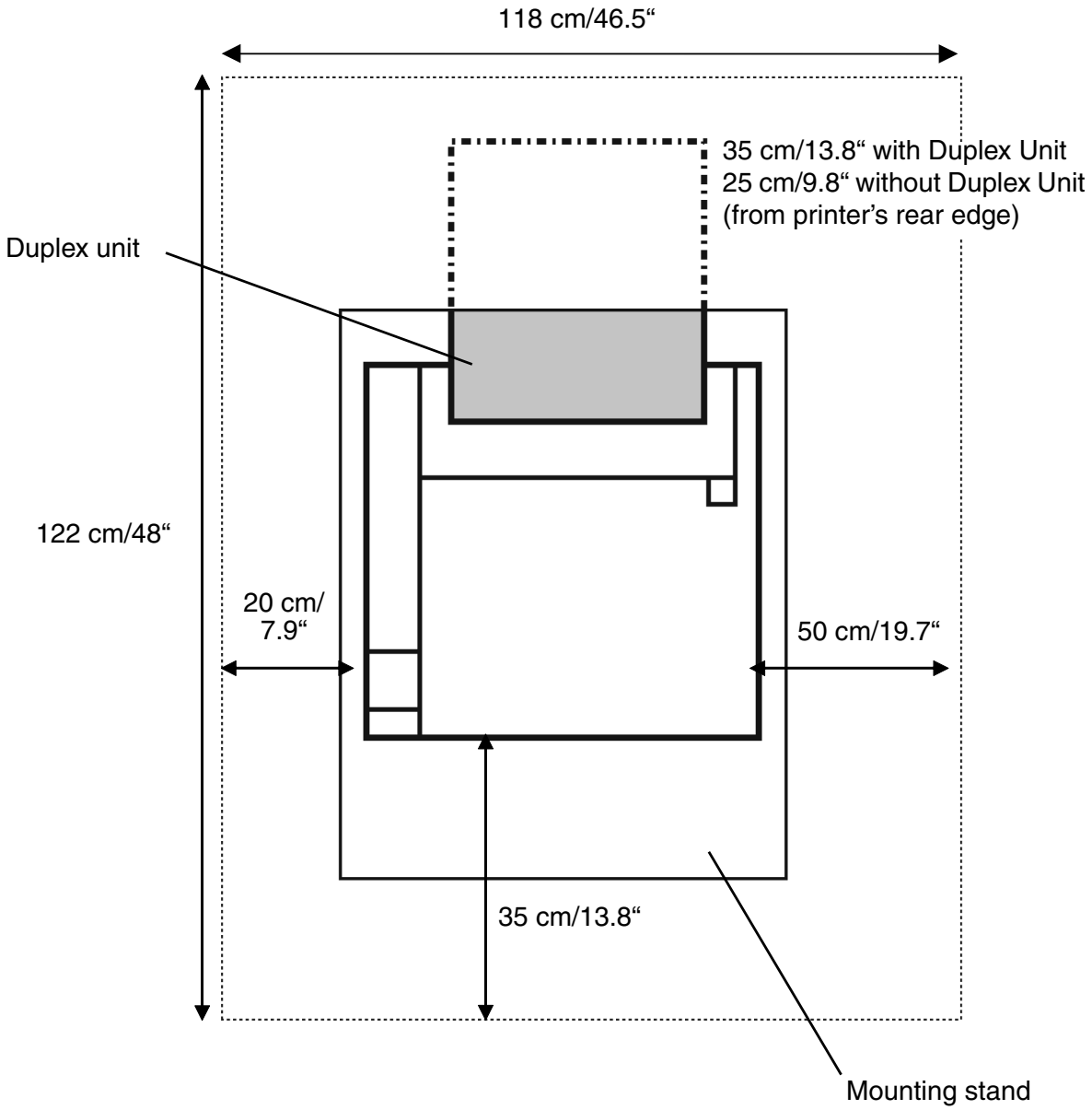


8.2.2 Before Installing to the Printer

Make sure the following before installing the duplex unit.

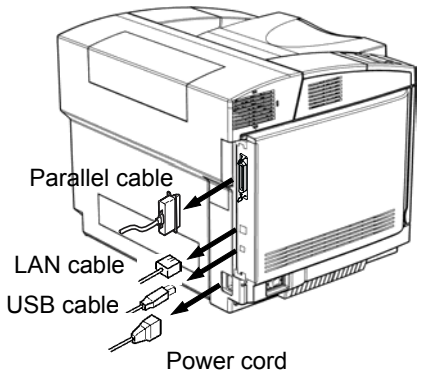
Installing Area

To operate the printer smoothly with the duplex unit installed, install the printer where the picture below shows. The duplex unit is installed at the back of the printer, then an area behind the printer must be reserved for operating the duplex unit.

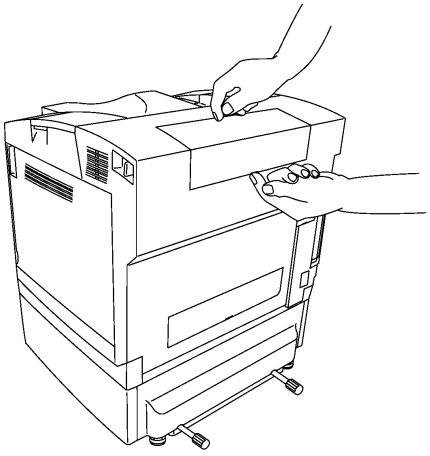


8.2.3 Installation

Install the duplex unit to the printer according to the following procedure.

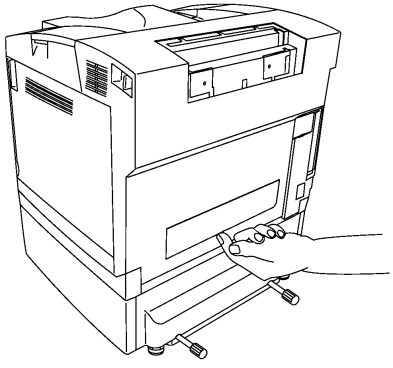


1. Turn off the printer.
2. Disconnect the power cord, USB cable, and LAN cable from the printer.

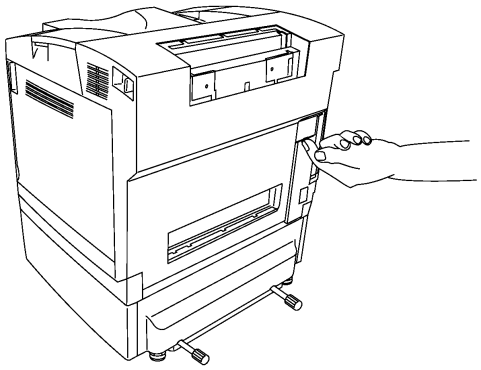


3. Remove the upper duplex cover from the back of the printer.

▶ The duplex covers may be readily removed with a coin.

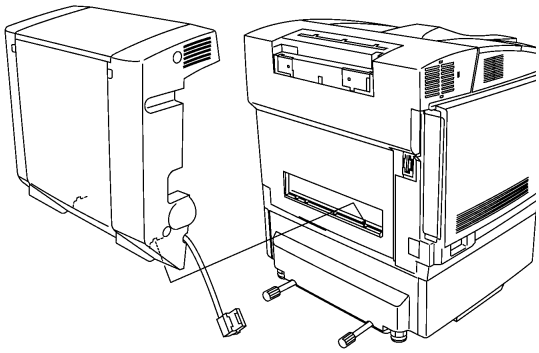


4. Remove the lower duplex cover from the back of the printer.



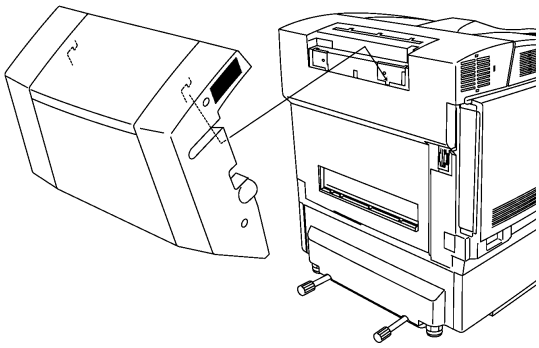
5. Remove the duplex connector cap from the back of the printer.

▶ Keep all the covers and cap carefully.

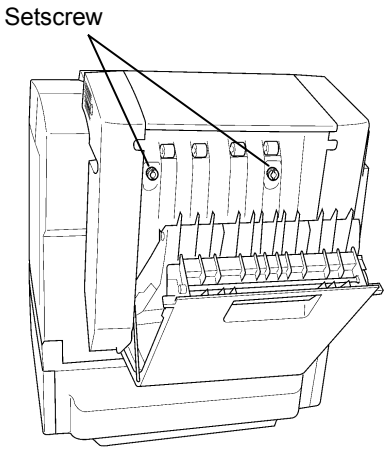


6. Hold the duplex unit grasping the grips in the right and left sides of the unit.

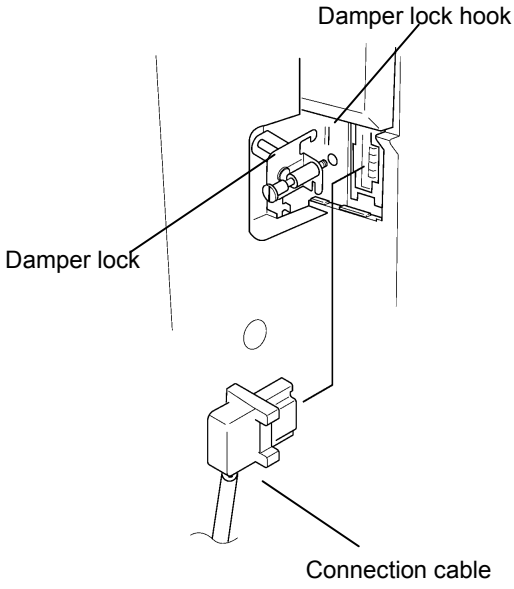
7. Set the duplex unit to the lower positioning groove of back cover.



8. Set the hook in the positioning hole along the guide rib at the upper right of the back cover.



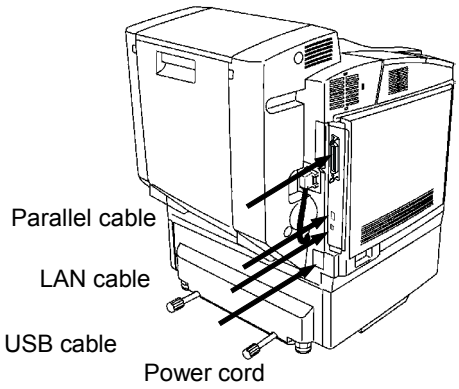
9. Open the duplex cover, incline the paper reverse unit, and then tighten the setscrews.



10. Hook the damper lock to the damper lock hook of the back of the printer and tighten the screw of the damper lock hook at the right side.

11. Attach the connection cable to the connector of the printer.

▶ Insert the connector until it locks.



12. Connect the power cord, USB cable and LAN cable.

8.2.4 After installation

If you have installed the duplex unit, check the operation by seleting the the duplex unit in the printer driver.

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